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LANSING, MICHIGAN.

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By

The Society of the New York Hospital,

March, 1898.

EIGHTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN, FOR THE YEAR 1874.

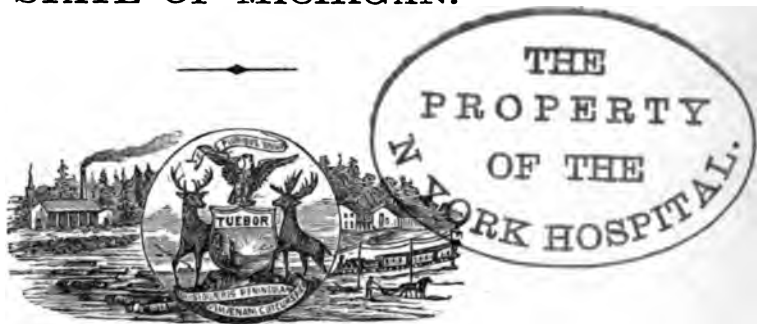
BY THE

SUPERINTENDENT OF VITAL STATISTICS,
LANSING, MICHIGAN,
UNDER THE GENERAL DIRECTION OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN.



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STATE DEPARTMENT, MICHIGAN, }
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Lansing, November 1, 1879. }

HON. CHARLES M. CROSWELL, *Governor of Michigan:*

SIR,—I herewith submit the Eighth Annual Report of this Department, relative to Births, Marriages, and Deaths, pursuant to Act No. 194 of 1867, as amended by Act No. 125 of 1869, and by Act No. 81 of 1873.

Very respectfully,

WM. JENNEY,

Secretary of State.

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EIGHTH REGISTRATION REPORT
CONCERNING
VITAL STATISTICS OF MICHIGAN, 1874.

GENERAL REMARKS AND STATEMENTS.

This Eighth Annual Report on this subject in this State is based upon returns received by the Secretary of State from the clerks of the several counties, under substantially the same law as has existed from the beginning in this State; and the compilation is under the immediate direction of the same person who has compiled all the preceding reports, except the first two; the compiler acting at first as a committee from the State Medical Society, in accordance with section 5 of act 125, laws of 1869, and later as Superintendent of Vital Statistics in accordance with section 10 of act 81, laws of 1873. The first law, approved March 27, 1867, did not differ much from the present one, approved in 1869, except that under the first law the statistics of births and deaths were enumerated and returned for the year ending the day before the first Monday in April, whereas now (and since the First Annual Report) the births and deaths are enumerated which occurred during the calendar year—ending December 31—preceding the year in which they are placed upon record. Certainly it was awkward to compile statistics which were not for a calendar year but for a year ending on a day not fixed in April; but the first law had the merit of attempting to place upon record the important facts relating to births and deaths at a time about as early as was possible and not begin until after the close of the year in which they occurred, while under the present law about one-third of the year has passed after the latest births and deaths which are included in the enumeration occurred, before an attempt is made to place the facts upon record. It might be expected that under this system many of the births and deaths would be omitted; this is no longer matter of conjecture, however, it having been proved that a large proportion of the births, and a still larger proportion of the deaths, are omitted in the enumeration, because of the time which elapses after their occurrence before they are placed upon record. Some of the evidence of this is given in preceding Reports, and in this, as in former Reports, efforts are made to estimate from those returned the numbers of births and deaths which occurred. At the time the law was passed it was not generally known that this method of enumerating the births and deaths after the close of the year would fail of securing so large a proportion as has been found to be the case; but one of the most important facts in this connection is that the omissions are not uniform throughout the year, but a greater proportion of both births and deaths are omitted of those which occur in the first part of the year, because the time which elapses before their enumeration is so much longer than follows the occurrence of births and deaths near the close of the year. This unequal representation of the several months interferes with comparing by months, and seriously hinders the study

of the causes of deaths, which is one of the most important uses of the statistics. This may serve to show how important it is, in order to secure more accurate and valuable statistics, to have the facts placed upon record at or near the time the births and deaths occur—before relatives or friends of the deceased move away or the facts are forgotten. It is greatly to be hoped that the legislature will soon amend the law in this particular.

The most important part of this Report is that which relates to the causes of deaths, for in the knowledge of the causes of deaths is our hope for their prevention. For this purpose, however, we usually need to know more than the name of the disease which ended in death; we want to know all the essential facts relative to each death, such as the age and sex of the person, the month in which the death occurred, the meteorological conditions which prevailed at the time, etc., in order to learn the age of greatest liability to death from each disease, the sex of the person most in danger therefrom, the occupation which involves most danger, the atmospheric conditions to be avoided, etc. As may be seen from the latter part of this volume, which treats of this subject, considerable progress has already been made in such studies in this State.

The value of the evidences collected in these statistics increases greatly as the observations are multiplied by the additions made year by year,—what may be simply incidental in the first Report gains additional interest if the evidence in a subsequent Report confirms it, and may become an established law after observations for a long series of years have shown it to be a general truth; or a generally accepted opinion may, by similar statistical means, be found to have no foundation in fact. In the opinion of the compiler, illustrations of both these propositions are to be found in the Reports on Vital Statistics of Michigan already published, and many propositions are undergoing examination, which, each year, approach nearer a decision of the questions involved.

In the study of, and editorial work upon, the Vital Statistics of Michigan in 1874, the compiler has been greatly aided by the completeness of the work of those in the State Department who have performed the labor of compiling, according to his plans, the numerous tables, exhibits, etc., which go to make up the statistical part of this volume. This work has been done with great care, and with such correctness of plan and accuracy of detail as can only be reached by those who have had considerable experience with statistics of preceding years. In this connection the compiler desires especially to mention the very efficient services of Mr. Louis De Lamarter, whose long experience with this work enables him to guard against many errors which would creep in unless some experienced person watched closely all the details; he has given much patient study, and exercised painstaking care to make the tables, exhibits, and diagrams as perfect as possible, and he has greatly aided the compiler in comparing and stating the results. The compiler also acknowledges efficient aid rendered in some parts of the work by Mr. A. L. Gleason, of the office of the State Board of Health.

In submitting this volume to the many who from time to time may seek its pages for evidence on the innumerable questions which arise in connection with the *vital* subjects with which it has to do, the hope of the compiler is strong that it may aid progress in efforts for the prevention of sickness, the prolongation of life, and the general amelioration of the condition of mankind.

Respectfully submitted.

HENRY B. BAKER, M. D.,
Superintendent of Vital Statistics.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1874.

Exhibit A contains, for each of the years 1868-1874, the number of Marriages, Births, and Deaths in Michigan, and the Excess of Births over Deaths, according to the returns; also, for the years 1871, 1872, 1873, and 1874, the number of Births and Deaths, and excess of Births over Deaths, when they are corrected for omissions in the enumeration. The greatest excess of births over deaths as returned was in 1873, when the natural increase of population was 20,350; but the greatest excess when the births and deaths are corrected for omissions was in 1874. This last showing is to be taken with some caution, because the correction is based upon certain hypotheses, and because of the many circumstances which may modify the accuracy of the method of correction. An imperfect and defective law yields statistics which need some correction, and the method adopted by the compiler is the best known to him.

EXHIBIT A.—*Births, Marriages, and Deaths returned as having occurred in Michigan during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, including those in unknown month; also, for the Years 1871, 1872, 1873, and 1874, the Births and Deaths, and Excess of Births over Deaths, after they have been Corrected for Omissions in the Enumeration.*

		1868.	1869.	1870.	1871.	1872.	1873.	1874.
As Returned.	Marriages..... ^a	8,697	10,393	9,773	10,577	10,678	11,742	11,041
	Births.....	25,020	27,093	26,663	25,993	27,993	34,608	31,151
	Deaths.....	8,235	9,145	10,766	9,728	13,371	14,258	12,500
	Ex. of Births over Deaths	16,785	17,948	15,897	16,264	14,622	20,350	18,651
As Corrected for Omissions.	Births.....				37,104	43,081	45,088	55,841
	Deaths.....				15,733	21,101	20,312	20,080
	Ex. of Births over Deaths				21,381	21,980	24,776	35,751

^a Corrected, for additional returns, up to March 15, 1876.

Exhibit B is similar to that in previous Reports, with the data for 1874 added. The natural daily increase of population in 1874, according to the returns of births and deaths, is smaller than in 1873, but greater than in the previous years; when the births and deaths are corrected for omissions in the enumeration, the natural daily increase is greater in 1874 than in any previous year.

The exhibit is a condensed account of many important relations,—between the births, marriages, and deaths, respectively, and the inhabitants of the State, of each sex,—between the births and the deaths,—of one sex to the other, as relates to births and to deaths, etc.

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1870, 1871, 1872, 1873, and 1874. (According to the returns of births, marriages, or deaths, as the case may be, except some correction is mentioned.)*

	1870. ^b	1871. ^b	1872. ^b	1873. ^b	1874. ^b
Inhabitants represented by returns of marriages to one marriage.....	120.66	111.41	110.92	100.86	107.26
In population represented by marriages, males to one marriage.....	62.97	58.13	57.90	52.65	56.00
In population represented by marriages, females to one marriage.....	57.68	53.28	53.01	48.21	51.27
Male inhabitants at ages at which marriages occurred to one marriage.....	37.21	36.66	35.38	32.14	34.16
Female inhabitants at ages at which marriages occurred to one marriage.....	37.80	36.29	34.53	32.66	33.54
Inhabitants represented by births to each child returned.....	43.43	44.13	41.77	34.07	37.89
Inhabitants, males to each male child returned.....	43.59	43.97	42.19	34.35	37.84
Inhabitants, females to each female child returned.....	43.57	44.57	41.58	33.90	38.08
Inhabitants represented by births to each child, births corrected for omissions.....					23.75
Inhabitants, females aged 16 to 45 to each child returned.....	9.35	9.51	8.98	7.32	8.16
Children born to 100 females aged 16 to 45.....	10.68	10.52	11.13	13.66	12.25
Inhabitants represented by deaths to one death.....	107.13	117.54	86.61	82.46	93.77
Inhabitants, males to one death of male.....	107.48	114.75	84.00	80.16	91.76
Inhabitants, females to one death of female.....	107.50	121.67	89.93	85.34	96.69
Deaths, males to 100 females.....	106.73	115.17	116.55	116.10	114.83
Births, males to 100 females.....	106.80	110.21	107.48	107.67	109.88
Total population of State, males to 100 females.....	109.22	109.22	109.22	109.22	109.22
Births to one death.....	2.47	2.67	2.09	2.43	2.49
Births, males to one death of male.....	2.47	2.62	2.01	2.34	2.44
Births, females to one death of female.....	2.47	2.74	2.18	2.52	2.55
Children born of which the sex was unknown or not stated.....	91.00	68.00	83.00	68.00	49.00
Deaths of which the sex was unknown or not stated.....	37.00	35.00	27.00	17.00	31.00
Natural daily increase of population as per births and deaths returned.....	43.55	44.56	39.93	55.76	51.10
Natural daily increase of population when returns are corrected as in 4th line of Exhibit A, page 5, and Exhibit C, page 122.....		58.58	60.06	67.88	97.95

^a Marriages corrected, for additional returns, up to March 15, 1876.

^b In computing statements for this column the inhabitants, June 1, 1870, were used. The State Census is not available because of imperfections in its plan.

EXHIBIT C.—*By Nativity and Sex, the Number of Persons Married, the Number of Children Born, and the Number of Decedents in Michigan during the Year 1874 to 100 Inhabitants, June 1, 1870; Births, Marriages, and Deaths according to the Returns.*

NATIVITY OF PERSONS MARRIED, OF DECEDENTS, AND OF PARENTS OF CHILDREN BORN.*	TO 100 INHABITANTS, JUNE 1, 1870,								
	PERSONS MARRIED, 1874.			CHILDREN BORN, 1874.			DECEDENTS, 1874.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Native.....	1.69	1.60	1.78	1.45	1.48	1.42	1.08	1.12	1.04
Foreign.....	2.35	2.30	2.41	3.96	3.71	4.26	.80	.80	.80

* In Persons Married, and Parents, only those cases are included where both parties are "Native" or "Foreign."

Some interesting comparisons may be made from Table I, which shows the average number of Births, Marriages, and Deaths, and excess of births over deaths for certain specified periods of time during the year 1874. On an average, 51.10 more births than deaths occurred on each day of the year 1874, according to the returns; and when the returns are corrected for omissions in the enumeration, it appears that there were 97.95 more children born every day than there were persons who died.

TABLE I.—*The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year, and the Average Number and Excess during Specified Periods of Time within the Year 1874, as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.*

PERIODS OF TIME, 1874.		Marriages, 1874.	Births, 1874.	Deaths, 1874.	Excess of Births over Deaths.
Births and Deaths as Returned.	Year, 1874.....	11,041.00	31,151.00	12,500.00	18,651.00
	Quarter.....	2,760.25	7,787.75	3,125.00	4,662.75
	Month.....	920.08	2,595.92	1,041.67	1,554.25
	Week.....	212.32	639.06	240.38	398.68
	Day.....	30.25	86.35	34.25	51.10
Births and Deaths as Corrected.*	Year, 1874.....	.....	56,796.00	20,044.00	36,752.00
	Quarter.....	.....	13,949.00	5,011.00	8,938.00
	Month.....	.....	4,649.67	1,670.33	2,979.34
	Week.....	.....	1,073.00	385.46	687.54
	Day.....	.....	152.87	54.92	97.95

* Births and deaths in unknown month excluded.

BIRTHS, DEATHS, AND EXCESS OF BIRTHS.

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EXHIBIT 1.—*By Months, the Births, Deaths, and Excess of Births over Deaths in Michigan during each of the Years 1867 to 1874, inclusive, according to the Returns.*

		MONTHS.												
		TOTAL. *	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1867	Births.....					1,573	1,372	1,385	1,542	1,704	1,641	1,661	1,502	1,554
	Deaths.....					532	383	346	373	512	627	555	485	518
	Excess of Births					1,041	989	1,039	1,169	1,192	1,014	1,106	1,017	1,036
1868	Births.....	24,641	1,699	1,759	2,043	1,607	2,037	1,944	2,163	2,399	2,362	2,246	2,069	2,283
	Deaths.....	8,105	535	583	699	486	503	482	747	983	1,041	776	602	668
	Excess of Births	16,536	1,164	1,176	1,344	1,121	1,534	1,462	1,416	1,416	1,321	1,470	1,467	1,615
1869	Births.....	27,023	1,658	1,752	2,005	2,042	2,221	2,085	2,466	2,731	2,682	2,508	2,361	2,512
	Deaths.....	9,097	436	561	761	712	652	630	687	1,068	1,194	874	686	836
	Excess of Births	17,926	1,222	1,191	1,244	1,330	1,569	1,455	1,779	1,663	1,488	1,634	1,675	1,676
1870	Births.....	26,531	1,604	1,737	2,069	2,076	2,275	2,140	2,339	2,550	2,602	2,480	2,233	2,387
	Deaths.....	10,731	421	553	724	678	639	754	1,084	1,473	1,363	1,132	933	927
	Excess of Births	15,800	1,183	1,184	1,375	1,398	1,586	1,386	1,255	1,086	1,239	1,348	1,300	1,460
1871	Births.....	25,926	1,737	1,688	1,937	1,869	2,046	1,898	2,171	2,536	2,518	2,478	2,329	2,639
	Deaths.....	9,671	529	578	781	721	750	626	788	1,083	1,055	933	798	1,029
	Excess of Births	16,255	1,208	1,110	1,206	1,178	1,296	1,272	1,383	1,453	1,463	1,545	1,531	1,610
1872	Births.....	27,965	1,774	1,899	2,195	2,253	2,281	2,250	2,413	2,817	2,713	2,428	2,357	2,585
	Deaths.....	13,341	602	756	941	1,140	979	815	1,050	1,738	1,653	1,321	1,058	1,288
	Excess of Births	14,624	1,172	1,143	1,254	1,113	1,302	1,435	1,363	1,079	1,060	1,107	1,299	1,297
1873	Births.....	34,538	2,112	2,249	2,847	2,711	2,794	2,599	2,915	3,342	3,436	3,165	3,017	3,351
	Deaths.....	14,189	859	1,104	1,248	1,174	1,121	1,040	1,176	1,535	1,471	1,258	1,067	1,136
	Excess of Births	20,349	1,253	1,145	1,599	1,537	1,673	1,559	1,739	1,807	1,965	1,907	1,950	2,215
1874	Births.....	31,106	1,899	1,954	2,462	2,464	2,596	2,553	2,761	3,077	2,972	2,726	2,726	2,921
	Deaths.....	12,454	655	672	919	1,102	1,071	866	965	1,388	1,517	1,211	968	1,120
	Excess of Births	18,652	1,244	1,282	1,543	1,362	1,515	1,687	1,796	1,689	1,455	1,515	1,758	1,801
Monthly averages of excess for 1868 to 1874, inclusive.....		17,163	1,207	1,176	1,366	1,291	1,496	1,466	1,533	1,456	1,427	1,504	1,573	1,608

* Unknown month excluded.

EXHIBIT 2.—*Births in Michigan, by Months, during the Year 1874, and Marriages and Deaths during Months of Conception of same, showing the Births and Deaths as Returned, as Corrected for Omissions in Enumerating, and Equalized for Increase of Population during the Year,—all Months Equalized to Uniform length of 30.44 days.*

	Total. ^a	MONTHS, 1874.												
		Jan.	Feb.	Mar.	Apr.	May.	J ⁿ e.	J ^l y.	Aug.	Sept.	Oct.	Nov.	Dec.	Av. Month.
Births, 1874, equalized to months of uniform length.....	31,100	1,865	2,124	2,418	2,500	2,539	2,595	2,711	3,021	3,016	2,677	2,766	2,868	2,591.67
Births, 1874, corrected for omissions in enumerating, and equalized to months of uniform length.....	55,846	4,207	4,026	5,075	5,052	4,931	4,837	4,840	5,156	4,910	4,148	4,069	3,995	4,653.83
Births, corrected and equalized, equalized to months of uniform length.....	57,139	4,383	4,804	5,252	5,211	5,070	4,956	4,941	5,246	4,979	4,192	4,097	4,008	4,761.58
		1873.									1874.			
		Apr.	May.	J ⁿ e.	J ^l y.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Av. Month.
Marriages ^b , equalized to months of uniform length.....	11,932	—	—	—	+	—	+	+	+	+	—	+	—	994.33
Deaths, equalized to months of uniform length.....	13,209	1,191	1,101	1,055	1,155	1,507	1,492	1,235	1,083	1,115	643	730	902	1,100.75
Deaths, corrected for omissions in enumerating, and equalized to months of uniform length.....	19,344	1,832	1,648	1,536	1,633	2,069	1,988	1,594	1,352	1,346	1,272	1,400	1,674	1,612.00
Deaths, corrected and equalized, equalized to months of uniform length.....	19,782	1,890	1,694	1,574	1,667	2,105	2,016	1,610	1,361	1,351	1,326	1,455	1,733	1,648.50

^a Excluding unknown month.

^b Marriages corrected, for additional returns, up to March 15, 1876.

In Exhibit 2 the plus and minus signs indicate, respectively, that in the months where they occur the number is greater or less than the "Average Month," as the case may be.

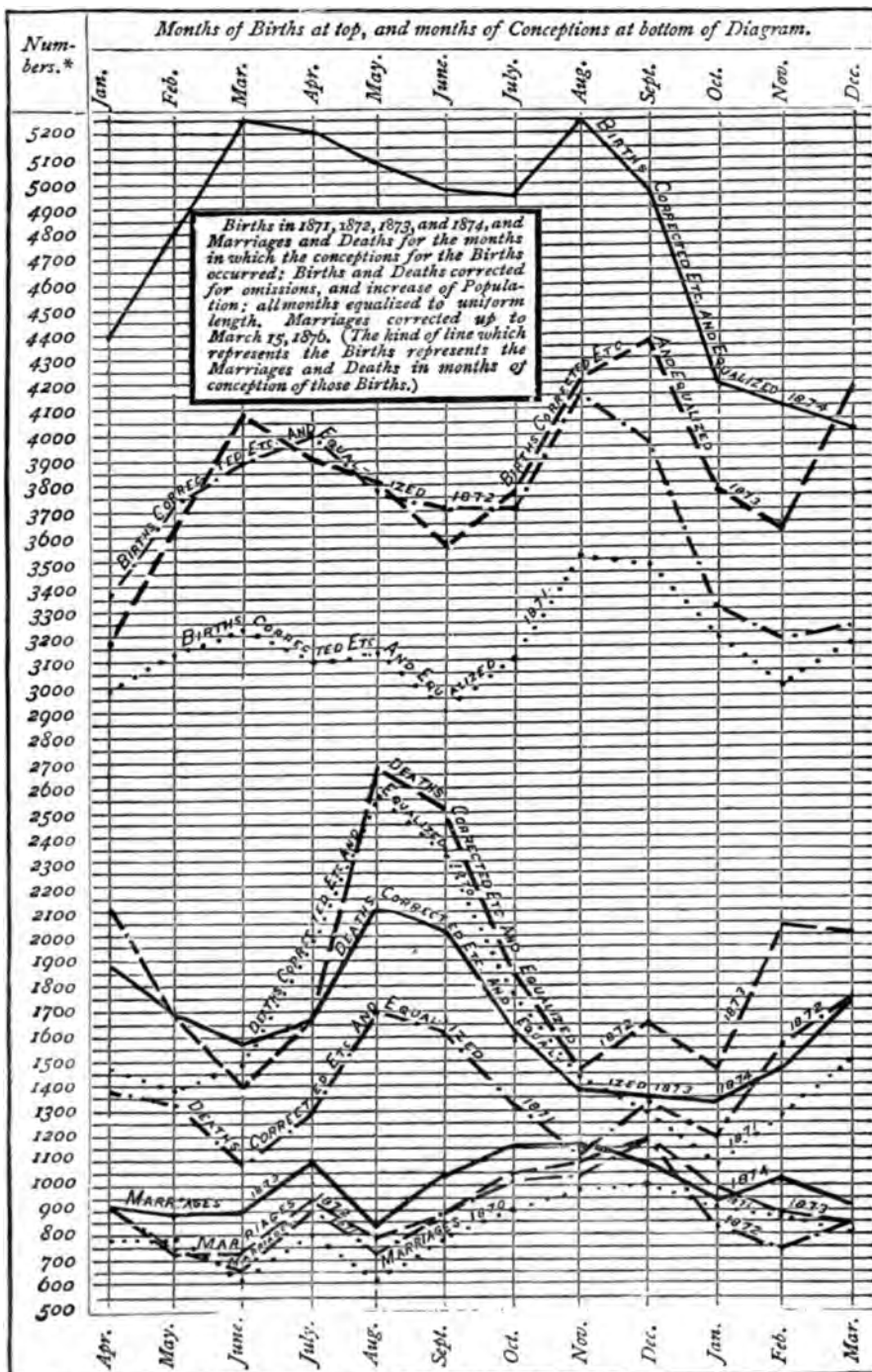
Using the number of births returned as the datum, propositions may be made as follows:

(1). *More* than an average number of conceptions occurred in months in which *more* than an average number of marriages were solemnized, and *vice versa*.

(2). *Less* than an average number of conceptions occurred in months in which *more* than an average number of deaths occurred, and *vice versa*.

According to Exhibit 2, there are three exceptions to each of the above propositions. The relations of the births, marriages, and deaths, in each of the years 1871, 1872, and 1873, to the births, marriages, or deaths in each of those years are graphically shown in Diagram 1, page xv.

DIAGRAM No. 1.



*Scale=750 to the inch.

Drawn by L. De Lamarier.

Designed by Henry B. Baker.

MICH. ENG. CO.

NATURAL INCREASE OF POPULATION.

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EXHIBIT D.—Grouping the evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the Returns; the Evidence Exhibited covering the Years 1869, 1870, 1871, 1872, 1873, and 1874.

BIRTHS, DEATHS, AND EXCESS OF BIRTHS.	1869.			1870.			1871.			1872.			1873.			1874.		
	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.	Total.	Both Parents of Chil- dren Native-born.	Both Parents of Chil- dren Foreign-born.
Births, by Parent-Nativity.	27,093	13,060	8,043	26,063	12,365	8,604	25,992	11,374	8,734	27,093	12,907	9,721	34,608	16,202	11,946	31,151	15,341	10,517
Deaths, by Nativity	9,145	7,517	1,275	10,766	8,804	1,609	9,728	7,759	1,608	13,371	10,812	2,146	14,248	11,600	2,354	12,500	9,937	2,128
Excess of Births over Deaths	17,948	5,543	6,768	15,297	3,561	6,995	16,264	3,615	7,126	14,622	2,095	7,575	20,360	4,602	9,612	18,651	5,404	8,389

^a Includes children of mixed parentage, and those where the Nativity of one or both parents was unknown.

^b Includes deaths of persons of unknown nativity.

^c Includes all deaths of persons born in the United States, whether born of Native or of Foreign-born Parents.

^d Includes only persons who were born in foreign countries.

BIRTHS, MARRIAGES, AND DEATHS.

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	1,211	629	593	23	29	30	19	31	90	11	8	8
Emmet..... ^a	1,211	629	593	23	29	30	19	31	90	11	8	8
Genesee.....	23,885	17,449	16,446	314	564	317	246	1	220	101	344	198
Gladwin.....					5	4	1	1		1	4	4
Grand Traverse..... ⁱ	4,443	2,389	2,054	34	97	58	39	35	15	20	62	43
Graiot..... ^j	11,808	6,189	5,619	90	376	205	171	127	65	63	249	140
Hilledale.....	31,688	16,104	15,384	404	444	225	218	221	113	106	223	112
Houghton.....	13,893	7,745	6,137	136	798	418	379	1	225	91	573	284
Huron..... ^k	9,048	5,086	4,012	78	430	243	186	1	111	49	319	182
Ingham.....	25,268	13,096	12,172	281	583	293	290	1	262	135	321	157
Ionia.....	27,675	14,452	13,223	243	595	310	285		246	147	309	168
Iosco..... ^l	3,175	1,913	1,362	21	80	44	34	2	26	16	54	28
Isabella..... ^m	4,113	2,211	1,902	50	123	67	56		36	11	87	56
Jackson.....	36,040	19,056	16,984	263	713	346	366	1	277	133	436	213
Kalamazoo.....	32,065	16,523	15,543	302	632	309	320	3	331	177	301	133
Kalkaska.....	424	244	180	9	65	37	28		14	7	51	30
Kent.....	50,410	26,166	24,244	520	1,528	788	735	5	536	293	942	495
Keweenaw.....	4,296	2,327	1,579	35	214	121	93		53	39	161	82
Lake.....	548	305	243	14	59	25	24		26	13	33	13

^a The figures with the minus sign placed before them indicate the excess of deaths over births.

^b No returns of births or deaths from the township of Ossineke.

^c No returns of births or deaths from the township of Otsego Lake.

^d No returns of births or deaths from the township of Clayton.

^e No returns of births or deaths from the townships of Burt and Inverness.

^f No returns of births or deaths from the township of Warner, and no returns of deaths from the township of Sugar Island.

^g No returns of births or deaths from the townships of Masonville and Sack Bay, and no returns of deaths from the township of Winona.

^h No returns of births or deaths from the township of Bear Creek.

ⁱ No returns of births or deaths from the township of Whitewater.

^j No returns of deaths from the township of Elba.

^k No returns of births or deaths from the townships of Bloomfield and White Rock, and no returns of deaths from the townships of Brookfield, Meado, and Sand Beach.

^l No returns of births or deaths from the township of Baldwin.

^m No returns of births or deaths from the townships of Sherman and Union, and no returns of deaths from the townships of Chippewa and Eolland.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION, JUNE 1, 1870.			Marriages, 1874.	BIRTHS, 1874.			DEATHS, 1874.			EXCESS OF BIRTHS OVER DEATHS.					
	Total.	SEX.			Total.	SEX.		Total.	SEX.		Total.	SEX.				
		Males.	Females.			Males.	Fe- males.		Un- known.	Males.		Fe- males.	Un- known.	Males.	Fe- males.	Un- known.
Lapeer.....	21,342	11,051	10,291	194	491	266	224	1	224	118	105	1	267	148	119	.....
Leelanaw.....	4,577	2,401	2,176	42	112	56	56	.....	46	22	24	.....	66	34	32	.....
Lenawee.....	45,601	22,916	22,685	441	728	385	338	.....	330	163	167	.....	232	222	171	.....
Livingson.....	19,335	10,072	9,263	151	406	187	219	.....	138	98	90	.....	218	89	129	.....
Mackinac.....	1,715	905	810	26	48	30	17	1	14	6	10	.....	32	24	7	1
Macomb.....	27,619	14,096	13,523	180	608	319	288	1	270	141	123	1	338	178	160	.....
Manistee.....	6,074	3,458	2,616	67	297	145	152	.....	70	33	37	.....	227	112	115	.....
Manitou.....	891	488	403	8	30	14	16	.....	9	7	2	.....	21	7	14	.....
Marquette.....	14,278	8,485	5,793	206	891	433	438	.....	254	142	112	.....	637	311	356	.....
Mason.....	3,266	1,914	1,452	37	140	68	72	.....	47	23	19	.....	93	40	53	.....
Mecosta.....	5,645	3,061	2,584	87	268	134	134	.....	79	34	45	.....	189	100	89	.....
Menominee.....	1,895	1,266	629	19	11	4	7	.....	2	2	.....	.....	9	2	7	.....
Midland.....	3,383	1,813	1,470	23	158	81	76	1	42	19	23	1	116	63	53	.....
Missaukee.....	130	76	54	2	25	13	7	.....	3	2	1	.....	22	16	6	.....
Monroe.....	27,475	13,950	13,525	246	771	386	332	3	262	149	111	2	509	237	271	1
Montcalm.....	13,641	7,284	6,357	165	413	223	189	2	191	96	95	.....	232	127	93	2
Muskegon.....	14,893	8,402	6,490	153	471	241	229	1	170	86	83	1	301	155	146	.....
Newaygo.....	7,292	3,910	3,382	86	166	83	82	1	50	23	22	.....	116	55	60	1
Oakland.....	40,908	21,135	19,771	273	552	276	276	.....	235	133	127	.....	237	119	149	.....
Oceana.....	7,222	3,943	3,274	77	249	125	124	.....	89	43	46	.....	160	92	78	.....
Ontonagon.....	2,846	1,430	1,416	14	91	45	46	23	13	16	63	33	30

BIRTHS, MARRIAGES, AND DEATHS.

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Oceola.....	2,104	1,167	937	47	910	109	101	50	23	100	82	78	-----
Ottawa.....	26,850	14,050	12,800	224	873	457	405	298	131	574	300	274	-----
Presque Isle..... ^m	553	229	125	10	23	10	12	6	3	16	7	9	-----
Saginaw..... ⁿ	39,098	21,064	18,034	379	1,355	710	643	563	275	787	417	368	9
Sanilac.....	14,505	7,722	6,843	107	620	294	226	160	67	360	201	159	-----
Schoolcraft.....	799	519	280	6	49	29	20	20	5	28	14	15	-----
Shiawassee.....	20,823	10,815	10,007	152	453	230	223	163	87	285	149	136	-----
St. Clair.....	36,759	19,011	17,748	369	1,014	526	466	335	202	639	324	336	-1
St. Joseph.....	26,373	13,490	12,792	278	440	242	193	207	107	233	135	98	-----
Tuscola.....	13,715	7,263	6,452	121	427	226	201	158	81	269	145	125	-1
Van Buren.....	23,835	14,907	13,928	257	518	273	244	271	140	245	132	113	-----
Washtenaw.....	41,440	21,478	19,963	214	666	337	329	355	190	311	157	154	-----
Wayne.....	119,068	59,964	59,104	1,023	4,354	2,290	2,055	1,863	1,036	2,466	1,233	1,229	4
Wexford..... ^o	650	344	306	23	60	32	28	18	6	42	26	16	-----

^a The figures with the minus sign placed before them indicate the excess of deaths over births.

^b No returns of deaths from the township of Holmes.

^c No returns of births or deaths from the township of Arcadia, and no returns of births from the township of Morilla.

^d No returns of deaths from the townships of Chandler, Galilee, and South Manitou.

^e No returns of deaths from the township of Forsyth.

^f No returns of births or deaths from the townships of Hamlin, Lincoln, and Summit, and no returns of deaths from the townships of Branch, Free Soil, and Victory.

^g No returns of births from the township of Mt. Hayley, and no returns of deaths from the townships of Edenville, Jasper, and Porter.

^h No returns of deaths from the townships of Douglass, Holmes, Reynolds, and Winfield.

ⁱ No returns of deaths from the townships of Fruitland and Fruitport.

^j No returns of births or deaths from the township of Brooks.

^k No returns of deaths from the township of Newfield.

^l No returns of deaths from the township of Hartwick.

^m No returns of births or deaths from the townships of Presque Isle and Rogers.

ⁿ No returns of deaths from the townships of Albee and Chapin.

^o No returns of births or deaths from the townships of Clam Lake and Haring.

EXHIBIT E.—*Showing, for the State and Counties of Michigan, the Number of Births and Deaths Returned to this Department as having occurred out of Michigan during the Years 1870, 1871, 1872, 1873, and 1874.*

STATE AND COUNTIES.	1870.		1871.		1872.		1873.		1874.	
	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
STATE	264	70	279	82	283	98	467	122	248	70
Alcona					1			1		
Allegan	5	2	6	2	2	2	2	2	1	
Alpena										
Antrim	2									
Baraga										
Barry	11	1	7	2	3	3	11	1	6	
Bay	7	2	17	1	50	5	23	1	13	8
Benzie					2	2				
Berrien	8		8	9	9	8	24	5	7	2
Branch	6	1	7	2	5	2	15	3	9	3
Calhoun	5	4	1	1	8	5	11	1	3	2
Cass	15	2	8		4	6	13	2	3	
Charlevoix					1					
Cheboygan									1	
Chippewa						1				
Clare					1		1	1		
Clinton	3	3	7	1	4	1	9	4	1	
Delta	4	1	5	1						1
Eaton	9	3	4	1	2		5		3	2
Emmet		1								
Genesee	6	1	3		3		7	2	2	1
Gladwin										
Grand Traverse	1					1	1	1	3	1
Gratiot	4		7	1	3	1	4	1	5	1
Hillsdale	3		7	3	5	2	12	2	15	5
Houghton	2		4	1	10	1	6	2	8	1
Huron	1		4	4	11	1	5	1		
Ingham	2	3	1		2	2	8	2	6	3
Ionia	1		1	2			11	3	4	1
Iosco	3						1		1	
Isabella	3		3	3	1	1	3	1		
Isle Royal										
Jackson	17	4	10	4	11	3	16	7	10	4
Kalamazoo	8	5	9		8	2	19	6	12	2

EXHIBIT E.—CONTINUED.

COUNTIES.	1870.		1871.		1872.		1873.		1874.	
	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
Kalkaska.....									2	1
Kent.....	15	1	29	4	36	9	43	10	20	4
Keweenaw.....							1			
Lake.....							1			
Lapeer.....	3		7		1	2	6	1	1	
Leelanaw.....	2		1		1	1				
Lenawee.....	11	10	17	9	13	6	18	7	12	2
Livingston.....	3		3	3	5	2	3	1	2	1
Mackinac.....										
Macomb.....	6	3	1	1	2		10		8	2
Manistee.....	9	1	1	1			4	3		1
Manitou.....										
Marquette.....	7	4								
Mason.....	2				5		5	1	3	
Mecosta.....	7	2			9		4		8	1
Menominee.....						1	3			
Midland.....								7		
Missaukee.....										
Monroe.....	2	7	4	4	5	1	13		7	1
Montcalm.....	6		6	1	5		6	3		1
Muskegon.....	1	4	16	3	10	4	16	1	5	6
Newaygo.....		1	5				2		2	
Oakland.....	2		3		3	1	4	5	3	
Oceana.....	1		2		2	2	11	2		
Ontonagon.....				1					3	
Osceola.....					2	1	5		8	
Ottawa.....	4		2		4	1	5	3	1	2
Presque Isle.....										
Saginaw.....	9		2	1	6		11	4	6	
Sanilac.....			2		1		5		1	
Schoolcraft.....										
Shiawassee.....	5		2	1	4	2	7	2	3	
St. Clair.....	9		10	2	10	4	23	8	6	1
St. Joseph.....	5	1	3	1	5		13		4	
Tuscola.....	2		6		3	3	10	2	6	
Van Buren.....	9	1	8	5	2	3	17	2	10	2
Washtenaw.....	9	1	7	2	2	3	8	5	3	1
Wayne.....	9	1	23	6	1	3		6	11	7
Wexford.....							1			

Exhibit E is a new one, given to show certain details which one would not expect under a law which is supposed to provide for the enumeration of births and deaths only which actually occur in this State. It may be supposed that the parents of the children and some member of the family of the decedents enumerated in Exhibit C resided in Michigan at the time the supervisor or assessor made the assessment. Perhaps in an equal number of cases, births or deaths which actually occurred in Michigan failed to be returned because the parents or relatives had removed from the State during the year, more or less, which elapsed thereafter before the visit of the supervisor or assessor.

BIRTHS.

The tables compiled in the State Department, from the returns of births by the county clerks, show that 31,151 children were returned, by supervisors and assessors, as having been born in Michigan in 1874, a decrease of 3,457 from the number returned for 1873. With the exception of 1873, however, the number of births returned for 1874 is considerably larger than for any previous year. The year 1873 seems to have been very exceptional in the large number of births returned, and probably also in those which occurred.

It was stated in the report for 1873 that, according to the system of correction for omissions in the enumeration used by the compiler, the number of births returned for 1873 should be increased by about 30.38 per cent. in order to equal the number of children which were actually born; according to this same system, the number of births returned for 1874 should be increased by about 79.37 per cent. in order to equal the number of children born in Michigan in 1874. This per cent. is probably too large, and the 30.38 per cent. employed for the births in 1873 was probably too small, for the following reasons:

The manner of learning the number and proportion of births omitted for the month of January (from which the corrections for the other months are reached), is to compare the number returned for January with those returned for the preceding month of December, and then increase the number for January so that it shall bear the same relation to the number returned for the last preceding month, as was found, by a study of these statistics in connection with the statistics of the last U. S. Census, to be the probable true relation of the number for December and January, after making allowance for difference in time elapsing between the occurrence and the enumeration of the births. So long as the birth-rate continues about the same, year after year, the application of this system of correction seems to be practicable; but when, as in 1873, the birth-rate is unusually increased, this system of correction tends to make the numbers as corrected too small, and when the birth-rate is actually much decreased, the tendency is to make the per cent. of correction too large. Other influences being the same, an unusually large birth-rate in any given year, will probably be followed in the next year by a smaller than average birth-rate, because an unusually large proportion of women will then have been, and still be nursing children, and consequently not so liable to become pregnant. It is probable that very many more births actually occurred in 1873 than in 1874, and that therefore the per cent. of increase for 1874, estimated according to the usual plan, is too large, because it is based upon an assumed relation between the numbers for December, 1873, and January, 1874.

The following tabular exhibit shows what per cent. of the births which probably occurred were returned, also the per cent. by which the number of births returned must be increased to equal the number which probably occurred, for the years 1871, 1872, 1873, and 1874, and the average for the four years,

VITAL STATISTICS OF MICHIGAN, 1874.

according to the compiler's plan of correction for omissions in the enumeration, because of late records.

YEARS.	Per Cent. of Births Returned.	Per Cent. of Births Added as Correction for Omissions.
1871.....	70.00	42.86
1872.....	64.95	43.95
1873.....	76.73	30.34
1874.....	55.75	79.37
Av. for 4 Years	66.86	51.63

According to the foregoing tabular exhibit, the average per cent. of births added as a correction for omissions in enumeration for the four years 1871-1874 is 51.63; and if we increase the number of births returned for 1874 by this 51.63 per cent. we obtain 47,234, which is probably a nearer approximation to the number of births which actually occurred in 1874 than would be the number obtained by increasing the births returned by 79.37 per cent. as would be done by strictly adhering to the plan of correction heretofore employed.

The average numbers of births for certain periods of time, including those in unknown month, as returned and as corrected for omissions in the enumeration are as follows:

Periods of time.	Births as returned.	Corrected as per Exhibit A, 4th line.	Corrected with 51.63 per cent.
Per quarter.....	7,787.75	13,969.25	11,808.50
Per month.....	2,595.92	4,656.42	3,936.17
Per week.....	599.06	1,074.56	908.35
Per day.....	85.35	153.09	129.41

Although 51.63 per cent. is probably nearer the actual per cent. by which the births should be increased for 1874 than is 79.37 per cent., in all the following statements of the per cent. of increase for omissions in the enumeration the same system is used as in previous Reports, and which for the births in 1874 increases them by 79.37 per cent.

The relations of the numbers of births in 1874 to the numbers of inhabitants in 1874 as shown by the State Census, are as follows:

SEX.	Inhabitants in 1874 Represented by Births in 1874.	Births as Returned.	Births Corrected for Omissions in Enumerating.	PER CENT. OF BIRTHS TO INHABITANTS. Births as Returned.	Births Corrected for Omissions.
Totals.....	1,325,983	31,151	55,834	2.35	4.21
Males.....	692,642	16,283	30,445	2.35	4.40
Females...	633,341	14,819	25,389	2.34	4.01
Unknown.		49			

Table I. is the same as for previous years, with the addition of data for 1874. As is the case with each of the preceding years except 1871, the largest number of births is returned for the quarter of the year ending with September, the next largest for the quarter ending with December. It should be remembered, however, that the table states the facts of the births as returned, and that the number of births omitted in the enumeration is greatest in the earlier months of the year.

BIRTHS BY QUARTERS OF THE YEAR.

3

TABLE I.—Births by the quarters of the Year, exhibiting the Number and Per Cent. of Totals for the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, according to the Returns.

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.		1874.	
	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
Totals.....	25,020	100.00	27,023	100.00	26,663	100.00	25,992	100.00	27,993	100.00	24,608	100.00	31,151	100.00
March.....	5,501	21.98	5,415	19.98	5,440	20.40	5,412	20.82	5,868	20.96	7,908	30.83	6,315	20.27
June.....	5,908	23.61	6,348	23.43	6,491	24.34	5,843	22.48	6,764	24.23	8,104	32.43	7,008	22.43
September.....	6,924	27.67	7,833	29.00	7,500	28.12	7,225	27.79	7,943	28.37	9,663	38.01	8,810	28.28
December.....	6,628	26.49	7,331	27.24	7,100	26.62	7,446	28.64	7,370	26.33	9,535	37.54	8,373	26.88
Unknown.....	a 58	.23	66	.24	122	.49	66	.26	28	.10	70	.28	45	.14
Average b	6,253	25.00	6,774	25.00	6,665	25.00	6,498	25.00	6,998	25.00	8,632	32.00	7,788	25.00

a See notes to month of April and to unknown month in Table II.

b The number in unknown quarter of year included.

Table II. shows the number of births, by months, and the per cent. of total, for each of the years 1868-1874, according to the returns, the months being arranged in order, those having the greatest number first. For four of the seven years the greatest numbers were returned as having occurred in August; and for six years the least numbers were returned as having occurred in January. For some purposes, comparisons by means of this table are useful, but if the reader wishes to study the relations of the several months with reference to the births which probably occurred in each month, the last line in Exhibit 3 should be examined.

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE II.—Births during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, according to the Returns, exhibiting the Number and Per Cent. of Total, by Months arranged in Order by Number, Months having the greatest number first.

	1868.			1869.			1870.			1871.			1872.			1873.			1874.		
	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.	Mo't.	Num. ber.	Per Ct. of Total.
Total		25,090	100.00		27,003	100.00		26,063	100.00		25,992	100.00		27,993	100.00		24,608	100.00		31,151	100.00
1 Aug.		2,369	9.53		2,731	10.06		2,602	9.75		2,639	10.15		2,817	10.06		3,436	9.93		3,077	9.88
2 Sept.		2,362	9.41		2,681	9.89		2,559	9.59		2,536	9.75		2,713	9.69		3,351	9.68		2,972	9.54
3 Dec.		2,283	9.12		2,512	9.27		2,490	9.30		2,518	9.68		2,565	9.23		3,342	9.66		2,921	9.38
4 Oct.		2,246	8.97		2,508	9.29		2,387	8.95		2,478	9.53		2,498	8.97		3,163	9.15		2,761	8.86
5 July.		2,163	8.64		2,471	9.12		2,339	8.77		2,329	8.96		2,413	8.69		3,017	8.72		2,798	8.75
6 Nov.		2,069	8.33		2,361	8.71		2,275	8.53		2,171	8.35		2,357	8.43		2,915	8.42		2,726	8.75
7 March		2,043	8.16		2,221	8.19		2,233	8.37		2,046	7.87		2,281	8.15		2,847	8.23		2,596	8.30
8 May.		2,037	8.10		2,085	7.69		2,140	8.02		1,987	7.61		2,253	8.06		2,794	8.07		2,559	8.21
9 June		1,944	7.76		2,042	7.53		2,039	7.87		1,899	7.30		2,280	8.04		2,711	7.83		2,464	7.91
10 April		1,928	7.70		2,005	7.40		2,076	7.78		1,898	7.30		2,193	7.81		2,599	7.51		2,462	7.90
11 Feb.		1,759	7.03		1,752	6.46		1,737	6.51		1,737	6.68		1,869	6.78		2,249	6.50		1,954	6.27
12 Jan.		1,600	6.79		1,659	6.11		1,804	6.01		1,688	6.49		1,774	6.34		2,112	6.10		1,890	6.10
Unk. b		58	.23		66	.24		132	.49		66	.25		29	.10		70	.20		45	.14
Ave. c		2,083.00	8.33		2,257.75	8.33		2,221.91	8.33		2,168.00	8.33		2,332.75	8.33		2,884.00	8.33		2,505.91	8.33

^a The number of births in April, 1868, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days. Thirty days at the same rate would give the number stated in this table.

^b This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the whole number stated in the Second Report, which was for the remaining nine months of the year 1868.

^c including unknown month.

BIRTHS, CORRECTED, BY MONTHS.

5

EXHIBIT A.—Births in Michigan during the year 1874, as Returned, as Corrected for Omissions in Enumerating, the Same Equalized for Increase of Population during the year covered by the Returns, and the Births as thus Corrected and Equalized for the several months, Equalized for months of a uniform length of 30.44 Days; also indicating some of the steps by which these results have been reached (Still-births and Children of unknown Sex included).

	MONTHS, 1874.											
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Total.....												
Births as returned by registration officers.....	21,106	1,860	2,463	2,464	2,586	2,586	2,761	2,977	2,973	2,795	2,796	2,921
Per cent. of births to be added for correction for time elapsing before enumeration.....	125.61	117.76	102.91	102.06	94.21	86.36	78.51	70.66	62.81	54.96	47.11	39.26
Number of births to be added for above correction.....	24,690	2,395	2,706	2,515	2,436	2,309	2,168	2,174	1,867	1,498	1,364	1,147
Births, if enumerated in months of occurrence.....	55,796	4,255	5,168	4,979	5,022	4,767	4,929	5,251	4,839	4,224	4,010	4,068
Per cent. of births to be added to equalize them to population at close of year.....		4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71 .35
Births to be added to equalize them to population at close of year.....	1,390	180	164	181	157	141	117	103	92	68	45	28 14
Births, as corrected, equalized to population at close of year.....	57,086	4,434	5,332	5,136	5,163	4,884	5,032	5,343	4,907	4,269	4,088	4,093
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		— .56	+ 2.44	+ .44	— .56	+ .44	— .56	— .56	+ .44	— .56	+ .44	— .56
Number by which the births should be increased or diminished to equalize them to months of uniform length.....		+ 53	— 81	+ 365	— 97	+ 75	— 93	— 91	— 97	+ 72	— 77	+ 89 — 74
Births, corrected and equalized, equalized to months of uniform length	57,129	4,393	4,804	5,211	5,070	4,866	4,941	5,346	4,979	4,192	4,097	4,008

* Excluding 45 in unknown month.

Exhibits A, B, C, D, and 3 are similar in character to those in the last Report, though confined to the year 1874. They indicate some of the steps by which the number of births returned is increased to equal the number which probably occurred. This correction is made necessary by omissions in the enumeration of births, which omissions are doubtless caused by the imperfections in our present law, which postpones the time of making the enumeration so long after the time when the births occur.

This system of correction has been explained at greater length in previous Reports.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT B.—Births of Males in Michigan during the year 1874, as Returned, as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

	TOTAL	MONTHS, 1874											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of Males as returned by registration officers.....	16,260	943	1,084	1,298	1,301	1,336	1,331	1,433	1,537	1,544	1,426	1,388	1,540
Per cent. of Births to be added for correction for time elapsing before enumeration.....	.....	137.62	129.01	120.42	111.63	103.22	94.63	86.02	77.42	68.82	60.22	51.62	43.02
Number of births to be added for above correction.....	14,163	1,367	1,334	1,563	1,455	1,379	1,259	1,275	1,229	1,063	839	716	663
Births of Males if Enumerated in months of occurrence.....	30,422	2,360	2,368	2,861	2,756	2,715	2,590	2,757	2,816	2,607	2,265	2,104	2,203
Per cent. of births to be added to equalize them to population at close of year.....	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year.....	709	92	91	100	87	76	64	56	50	37	24	15	8
Births of Males as corrected, equalized to population at close of year..	31,131	2,459	2,459	2,961	2,843	2,791	2,654	2,815	2,866	2,644	2,309	2,119	2,211
as added hundredths by which the months should be increased or	.....	—56	+244	—56	+44	—56	+44	—56	—56	+44	—56	+44	—56
labeled to equalize them to months of uniform length.....	.....	—56	+244	—56	+44	—56	+44	—56	—56	+44	—56	+44	—56
Per cent. of births added or subtracted to equalize them to months of	.....	—44	+214	—53	+42	—51	+39	—51	—52	+39	—43	+31	—40
uniform length.....	+32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Males corrected and equalized, equalized to months of uni-	31,163	2,415	2,673	2,906	2,866	2,740	2,663	2,764	2,814	2,683	2,367	2,150	2,171
form length.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Excluding 23 in unknown month.

BIRTHS OF FEMALES, CORRECTED, BY MONTHS.

7

EXHIBIT C.—Births of Females in Michigan during the Year 1874, as Returned, as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

	MONTHS, 1874												Total.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Births of Females as returned by registration officers.....	906	916	1,160	1,163	1,247	1,224	1,275	1,486	1,428	1,296	1,333	1,373	
Per cent. of Births to be added for correction for time elapsing before enumeration.....	112.14	104.07	92.00	91.93	84.96	77.79	70.72	63.63	66.58	49.51	42.44	35.37	
Number of Births to be added for above correction.....	1,024	973	1,148	1,068	1,068	952	902	946	907	641	566	496	
Births of Females if enumerated in months of occurrence.....	1,929	1,889	2,308	2,230	2,305	2,176	2,177	2,432	2,235	1,936	1,899	1,869	
Per cent. of Births to be added to equalize them to population at close of year.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35	
Births to be added to equalize them to population at close of year.....	81	73	81	70	65	54	46	43	31	21	13	7	
Births of Females as corrected, equalized to population at close of year.....	2,010	1,961	2,389	2,300	2,370	2,230	2,223	2,475	2,264	1,957	1,912	1,866	
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	— .56	+ 2.44	— .56	+ .44	— .56	+ .44	— .56	— .56	+ .44	— .56	+ .44	— .56	
Number of Births added or subtracted to equalize them to months of uniform length.....	+ 22	— 26	+ 171	— 43	+ 34	— 43	+ 33	— 46	+ 33	— 35	+ 28	— 34	
Births of Females corrected and equalized, equalized to months of uniform length.....	1,974	2,132	2,346	2,334	2,327	2,283	2,183	2,429	2,297	1,922	1,940	1,893	

* Excluding 17 in unknown month.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT D.—*Births of Males and Females in Michigan during the Year 1874, Corrected for Omissions in Enumerating, and, as thus Corrected, Equalized to Months of uniform length; also, the total Births of Both Sexes as thus Corrected and Equalized. Births of Children of unknown Sex not included.*

	Total.	MONTHS, 1874.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of Males, if enumerated in months of occurrence.....	30,422	2,300	2,308	2,381	2,708	2,715	2,800	2,737	2,816	2,607	2,285	2,104	2,303
Days and hundredths by which the months should be increased or dimin- ished to equalize them to months of uniform length.....	.....	—56 + 2.44	—56	—56 + .44	+ .44	—56	+ .44	—56	—56	+ .44	—56	+ .44	—56
Number of births added or subtracted to equalize the months to a uniform length.....	+ 27	—43	+ 208	—52	+ 40	—49	+ 38	—50	—51	+ 38	—41	+ 31	—40
Births of Males, corrected and equalized to months of uniform length.....	30,449	2,317	2,574	2,809	2,798	2,666	2,628	2,707	2,765	2,645	2,244	2,135	2,163
Births of Females, if enumerated in months of occurrence.....	25,372	1,929	1,848	2,308	2,320	2,305	2,178	2,177	2,432	2,238	1,936	1,899	1,869
Days and hundredths by which the months should be increased or dimin- ished to equalize them to a uniform length.....	.....	—56 + 2.44	—56	—56 + .44	+ .44	—56	+ .44	—56	—56	+ .44	—56	+ .44	—56
Number of births added or subtracted to equalize the months to a uniform length.....	+ 20	—35	+ 165	—43	+ 23	—43	+ 22	—29	—44	+ 23	—35	+ 28	—31
Births of Females, corrected and equalized to months of uniform length.....	25,392	1,894	2,053	2,266	2,303	2,263	2,206	2,138	2,388	2,266	1,901	1,927	1,825
Births of Males, corrected and equalized to months of uniform length.....	30,449	2,317	2,574	2,809	2,798	2,666	2,628	2,707	2,765	2,645	2,244	2,135	2,163
Births of Males and of Females, corrected and equalized to months of uniform length.....	55,841	4,211	4,627	5,075	5,099	4,929	4,886	4,845	5,153	4,911	4,145	4,062	3,988

* Excluding births in unknown month.

BIRTHS, CORRECTED AND EQUALIZED.

9

EXHIBIT 3.—Births in Michigan during the year 1874, Corrected for Omissions in Enumeration and Equalized for Months of a uniform length of 30.44 days. (Still-births and Children of unknown Sex included.)

	Total.	MONTHS, 1874.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births, if enumerated in months of occurrence.....	55,798	4,364	4,255	5,168	4,979	5,023	4,767	4,929	5,251	4,889	4,224	4,010	4,068
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	.....	-.56	+2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56
Number of births added or subtracted to equalize them to months of uniform length.....	+50	-77	+371	-93	+73	-91	+70	-89	-95	+71	-78	+59	-73
Births, corrected and equalized to months of uniform length.....	55,848	4,307	4,626	5,075	5,053	4,931	4,837	4,840	5,156	4,910	4,145	4,069	3,995

* Excluding births in unknown month.

Table III. enables us to study the relation between the number of births returned and the number of marriages returned as having been solemnized in the months in which the conceptions of the births probably occurred. The proposition is made that *more* than an average number of conceptions occurred in months when *more* than an average number of marriages were solemnized, and *less* than an average number of conceptions occurred in months when *less* than an average number of marriages were solemnized. To this proposition there are six exceptions in the table for each of the years 1872, 1873, and 1874, and the conception months of January, February, and March are exceptional in each of these years. The subject is studied further in exhibit E, in Births, immediately following, and also in Diagram No. 1, in the first part of this Volume, relating to Births, Marriages, and Deaths.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1874, and the Marriages solemnized in the Months of the Years 1873 and 1874 in which the conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

BIRTHS FOR 1874, EQUALIZED TO MONTHS OF 30.44 DAYS EACH, IN ORDER BY NUMBER, GREATEST FIRST.				No. of Marriages from April, 1873, to March, 1874, equalized to Months of 30.44 days each. ^b
BIRTHS. ^a		CONCEPTIONS.		
Year and Months.	Number.	Months.	Year.	
Year.....	31,100	.....	.....	11,932
August.....	3,021	November.....	1873	1,162
September.....	3,016	December.....	1873	1,062
December.....	2,868	March..... ^c	1874	920
November.....	2,766	February..... ^c	1874	1,020
July.....	2,711	October.....	1873	1,152
October.....	2,677	January..... ^c	1874	940
June.....	2,595	September.....	1873	1,047
Average.....	2,592	.....	.....	994
May.....	2,539	August..... ^c	1873	805
April.....	2,500	July..... ^c	1873	1,001
March.....	2,418	June..... ^c	1873	893
February.....	2,124	May.....	1873	884
January.....	1,865	April.....	1873	914

^a Excluding 45 births in unknown month, and 6 lost in equalizing.

^b Corrected, for additional returns, up to March 15, 1876.

^c Exceptions to statement that *more* than an average number of conceptions appear for months in which *more* than an average number of marriages were solemnized, and *less* than an average number of conceptions in months in which *less* than an average number of marriages were solemnized.

Exhibit E is similar to table III., but in the exhibit the number of births is corrected for omissions in the enumeration, and equalized to months of uniform length. The number of exceptions to the proposition in foot-note ^c is the same as in Table III., but they appear for different months, with the exception of March.

EXHIBIT E.—*The Relation between the Births in Michigan during the Year 1874, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1873 and 1874, in which the conceptions probably occurred. (Births and Marriages in unknown Month excluded.)*

BIRTHS FOR 1874, CORRECTED AS IF ENUMERATED IN MONTHS OF OCCURENCE, EQUALIZED TO MONTHS OF UNIFORM LENGTH, IN ORDER BY NUMBER, GREATEST FIRST.				Number of Marriages from April, '73 to March, '74, equalized to months of 30.44 days each. ^b
BIRTHS. ^a		CONCEPTIONS.		
Year and Months.	Number.	Months.	Year.	
Year	55,846	.....	.....	11,932
August	5,156	November..... ^c	1873	1,162
March.....	5,075	June.....	1873	895
April.....	5,052	July.....	1873	1,091
May.....	4,931	August.....	1873	825
September.....	4,910	December..... ^c	1873	1,082
July.....	4,840	October..... ^c	1873	1,152
June.....	4,837	September.....	1873	1,047
Average.....	4,653	.....	.....	994
February.....	4,626	May..... ^c	1873	884
January.....	4,207	April..... ^c	1873	914
October.....	4,148	January.....	1874	940
November.....	4,069	February.....	1874	1,020
December.....	3,995	March..... ^c	1874	920

^a Unknown month excluded.

^b Corrected, for additional returns, up to March 15, 1876.

^c Exceptions to statement that *more* than an average number of conceptions appear for months in which *more* than an average number of marriages were solemnized, and *less* than an average number of conceptions in months in which *less* than an average number of marriages were solemnized.

TABLE IV.—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been Born in Michigan during the Year, and in each Month of the Year ending December 31, 1874. (Still-births included.)*

STATE AND COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.....	Total.....	31,151	1899	1954	2462	2464	2586	2558	2761	3077	2972	2726	2726	2921	45
	Males.....	16,283	993	1034	1298	1301	1336	1331	1482	1587	1544	1426	1388	1540	23
	Females.....	14,819	905	916	1160	1162	1247	1224	1275	1486	1426	1295	1333	1373	17
	Unknown.....	49	1	4	4	1	3	3	4	4	2	5	5	8	5
	Excess of Males.....	1,464	88	118	138	139	89	107	207	101	118	131	55	167	6
Alcona.....	Total.....	33	1	1	1	4	4	3	4	3	4	2	3	3	---
	Males.....	18	1	---	---	2	3	1	4	1	2	2	1	1	---
	Females.....	13	---	---	1	2	1	2	---	2	2	---	1	2	---
	Unknown.....	2	---	1	---	---	---	---	---	---	---	---	1	---	---
Allegan.....	Total.....	697	41	49	60	60	52	54	48	78	67	68	57	63	---
	Males.....	364	22	23	32	32	30	32	22	33	42	32	29	35	---
	Females.....	333	19	26	28	28	22	22	26	45	25	36	28	28	---
Alpena.....	Total.....	108	9	3	11	12	7	12	7	13	6	7	10	11	---
	Males.....	55	5	2	5	5	5	5	2	7	1	3	6	9	---
	Females.....	53	4	1	6	7	2	7	5	6	5	4	4	2	---
Antrim.....	Total.....	194	4	3	7	10	7	10	12	14	10	13	3	11	---
	Males.....	59	2	1	5	4	6	4	10	7	2	8	2	8	---
	Females.....	45	2	2	2	6	1	6	2	7	8	5	1	3	---
Baraga.....	Total.....	46	5	2	3	6	7	1	5	6	3	3	2	3	---
	Males.....	34	5	2	2	6	5	---	3	4	2	2	1	2	---
	Females.....	12	---	---	1	---	2	1	2	2	1	1	1	1	---
Barry.....	Total.....	522	42	24	47	29	35	51	54	65	56	39	46	34	---
	Males.....	290	20	9	28	14	21	25	31	31	35	23	25	18	---
	Females.....	241	22	15	18	15	14	26	23	34	21	16	21	16	---
	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
Bay.....	Total.....	960	69	48	84	92	68	79	95	83	87	70	83	98	2
	Males.....	502	39	27	39	54	33	44	51	50	36	30	46	53	---
	Females.....	458	30	21	45	38	35	35	44	35	51	40	37	45	2
Benzie.....	Total.....	76	---	4	8	8	4	4	7	10	4	9	6	11	1
	Males.....	32	---	1	1	3	1	2	2	3	2	6	2	8	1
	Females.....	44	---	3	7	5	3	2	5	7	2	3	4	3	---

* Except of counties and townships not represented by returns of birth.

† No returns from township of Ossineke.

• No returns from township of Clayton.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Berrien.....	Total.....	541	39	21	51	36	66	47	36	54	45	61	41	44	---
	Males.....	276	22	10	19	20	35	20	24	28	21	40	18	19	---
	Females.....	265	17	11	32	16	31	27	12	26	24	21	23	25	---
Branch.....	Total.....	496	98	31	32	47	45	43	46	41	52	36	46	51	---
	Males.....	278	17	21	17	29	20	27	24	23	28	20	26	26	---
	Females.....	219	11	10	14	18	25	16	22	18	24	16	20	25	---
Calhoun.....	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
	Total.....	550	35	28	44	39	40	49	52	61	48	53	47	49	5
	Males.....	298	23	11	31	22	22	29	27	32	26	32	28	20	3
Cass.....	Females.....	252	12	17	23	17	18	20	25	29	20	21	19	29	---
	Total.....	322	23	23	26	23	23	22	31	23	34	30	32	29	---
	Males.....	174	11	14	12	11	8	12	12	13	23	18	16	19	---
Charlevoix.....	Females.....	148	12	8	13	12	15	10	19	10	11	12	16	10	---
	Total.....	64	6	6	4	3	12	7	5	4	7	3	2	5	---
	Males.....	37	2	4	2	1	6	6	4	2	3	2	2	3	---
Cheboygan.....	Females.....	27	4	2	2	2	6	1	1	2	4	1	---	2	---
	Total.....	105	13	11	10	8	11	6	9	8	5	5	7	11	1
	Males.....	57	7	5	5	4	6	3	5	4	3	3	5	6	1
Chippewa.....	Females.....	48	6	6	5	4	5	3	4	4	2	2	2	5	---
	Total.....	73	17	11	8	5	4	6	5	6	4	2	1	4	---
	Males.....	33	7	6	2	3	2	3	1	3	2	2	1	1	---
Clare.....	Females.....	40	10	5	6	2	2	3	4	3	2	---	---	3	---
	Total.....	40	2	2	---	4	5	5	6	3	3	4	3	3	---
	Males.....	23	1	1	---	2	4	2	4	3	1	1	2	2	---
Clinton.....	Females.....	17	1	1	---	2	1	3	2	---	2	3	1	1	---
	Total.....	515	26	30	47	46	59	50	47	40	43	43	39	45	---
	Males.....	272	17	15	27	23	29	25	19	23	21	23	21	29	---
Delta.....	Females.....	242	9	14	20	23	30	25	28	17	22	20	18	16	---
	Unknown.....	1	---	1	---	---	---	---	---	---	---	---	---	---	---
	Total.....	133	10	10	8	14	10	14	10	15	13	6	11	12	---
Eaton.....	Males.....	64	6	8	4	5	4	7	7	5	6	3	4	5	---
	Females.....	69	4	2	4	9	6	7	3	10	7	3	7	7	---
	Total.....	540	40	25	45	38	44	48	37	61	58	46	43	55	---
	Males.....	286	20	13	24	19	20	27	21	32	32	26	19	33	---
	Females.....	251	20	12	21	19	24	20	16	29	26	20	23	22	---
	Unknown.....	3	---	---	---	---	---	1	---	1	---	---	1	---	---

a No returns from township of Warner. b No returns from townships of Masonville and Sack Bay.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Emmet.....	Total.....	39	2	6	1	3	2	2	6	4	5	2	6	---
	Males.....	20	1	2	1	2	2	---	3	2	3	2	2	---
	Females.....	19	1	4	---	1	---	2	3	2	2	---	4	---
Genesee.....	Total.....	564	21	38	37	45	43	40	57	50	53	60	57	63
	Males.....	317	12	24	22	22	28	25	27	28	29	35	28	37
	Females.....	246	9	14	15	23	14	15	30	22	24	25	29	26
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---
Gladwin.....	Total.....	5	---	---	---	---	1	1	---	1	1	---	1	---
	Males.....	4	---	---	---	---	1	---	---	1	1	---	1	---
	Females.....	1	---	---	---	---	---	1	---	---	---	---	---	---
Grand Traverse. ^a	Total.....	97	7	10	9	11	8	12	10	4	6	4	7	9
	Males.....	58	2	4	4	6	5	8	7	4	4	3	5	6
	Females.....	39	5	6	5	5	3	4	3	---	2	1	2	3
Gratiot.....	Total.....	376	18	26	31	29	34	36	33	32	31	29	35	42
	Males.....	205	8	15	14	17	21	24	24	10	15	16	21	20
	Females.....	171	10	11	17	12	13	12	9	22	16	13	14	22
Hillsdale.....	Total.....	444	33	32	38	35	32	29	38	47	34	43	42	40
	Males.....	225	13	16	24	22	18	12	18	19	11	22	23	26
	Females.....	218	20	16	14	13	14	17	19	28	23	21	19	14
	Unknown.....	1	---	---	---	---	---	1	---	---	---	---	---	---
Houghton.....	Total.....	798	43	48	63	63	73	60	74	58	64	76	86	87
	Males.....	418	27	22	38	33	30	32	45	26	31	41	44	48
	Females.....	379	16	26	25	30	43	28	29	32	33	35	42	39
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	---	1
Huron..... ^b	Total.....	430	23	32	40	23	39	34	40	43	41	42	31	42
	Males.....	243	12	20	20	13	22	19	24	30	23	17	19	24
	Females.....	186	11	11	20	10	17	15	16	13	18	25	12	18
	Unknown.....	1	1	---	---	---	---	---	---	---	---	---	---	---
Ingham.....	Total.....	583	28	31	36	50	51	41	43	59	80	53	67	44
	Males.....	292	14	20	19	23	29	23	21	26	36	28	36	17
	Females.....	290	14	11	17	27	22	18	22	32	44	25	31	27
	Unknown.....	1	---	---	---	---	---	---	1	---	---	---	---	---
Ionia.....	Total.....	595	33	27	39	50	56	47	48	56	57	73	47	50
	Males.....	310	16	8	24	24	26	21	25	32	32	37	30	29
	Females.....	285	17	19	15	26	30	26	23	24	25	36	17	21

^a No returns from township of Whitewater.^b No returns from townships of Bloomfield and White Rock.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Iosco..... ^a	Total.....	80	2	5	7	6	7	4	8	9	3	14	6	9	---
	Males.....	44	---	5	5	3	6	1	5	4	2	8	3	4	---
	Females.....	34	2	2	2	2	1	3	3	5	1	6	3	4	---
	Unknown.....	2	---	---	---	1	---	---	---	---	---	---	---	---	1
Isabella..... ^b	Total.....	123	9	8	11	14	7	15	6	9	14	9	13	8	---
	Males.....	67	5	7	8	6	3	9	5	3	5	5	7	4	---
	Females.....	56	4	1	3	8	4	6	1	6	9	4	6	4	---
Jackson.....	Total.....	713	40	34	57	56	58	66	74	77	65	69	58	59	---
	Males.....	346	15	21	20	33	27	32	40	37	34	36	23	28	---
	Females.....	366	25	13	36	23	31	34	34	40	31	33	35	31	---
	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
Kalamazoo.....	Total.....	632	48	51	49	53	53	47	55	59	58	64	41	52	2
	Males.....	309	24	25	26	24	18	29	27	23	30	38	16	27	2
	Females.....	320	24	26	23	29	34	18	28	36	28	25	25	24	---
	Unknown.....	3	---	---	---	---	1	---	---	---	---	1	---	---	1
Kalkaska.....	Total.....	65	6	6	4	6	12	5	6	4	7	3	4	2	---
	Males.....	37	2	1	3	4	8	3	4	3	5	1	3	---	---
	Females.....	28	4	5	1	2	4	2	2	1	2	2	1	2	---
Kent.....	Total.....	1,528	83	113	110	128	109	132	138	133	155	145	132	150	---
	Males.....	788	33	56	61	65	60	62	79	63	80	77	68	75	---
	Females.....	735	49	57	49	63	48	70	59	70	65	68	63	74	---
	Unknown.....	5	1	---	---	---	1	---	---	---	1	---	1	1	---
Keweenaw.....	Total.....	214	21	17	21	12	16	25	16	28	21	18	14	5	---
	Males.....	121	9	11	12	5	8	16	11	13	13	10	9	4	---
	Females.....	93	12	6	9	7	8	9	5	15	8	8	5	1	---
Lake.....	Total.....	59	2	---	6	3	7	12	6	5	6	5	2	5	---
	Males.....	25	---	---	3	1	3	6	4	---	3	2	---	3	---
	Females.....	34	2	---	3	2	4	6	2	5	3	3	2	2	---
Lapeer.....	Total.....	491	25	30	44	40	39	41	51	55	56	36	39	35	---
	Males.....	266	18	18	27	23	23	19	25	28	27	19	19	20	---
	Females.....	224	7	12	17	17	16	22	25	27	29	17	20	15	---
	Unknown.....	1	---	---	---	---	---	---	1	---	---	---	---	---	---
Leelanaw.....	Total.....	112	7	9	10	5	13	9	12	6	10	8	11	12	---
	Males.....	56	4	4	7	4	6	5	7	4	4	1	4	6	---
	Females.....	56	3	5	3	1	7	4	5	2	6	7	7	6	---

^a No returns from township of Baldwin.^b No returns from townships of Sherman and Union.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Lenawee.....	Total.....	723	54	25	36	72	63	69	63	69	62	66	75	69	---
	Males.....	385	31	12	22	44	39	29	27	37	39	32	33	40	---
	Females.....	338	23	13	14	28	24	40	36	32	23	34	42	29	---
Livingston.....	Total.....	406	25	40	22	37	36	30	27	43	42	23	40	41	---
	Males.....	187	12	22	7	17	19	16	13	16	19	10	15	21	---
	Females.....	219	13	18	15	20	17	14	14	27	23	13	25	20	---
Mackinac.....	Total.....	48	5	2	4	1	3	4	3	7	6	2	3	6	2
	Males.....	30	4	---	3	1	2	3	1	4	5	1	3	3	---
	Females.....	17	1	2	1	---	1	1	2	3	1	1	---	2	2
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	---	1	---
Macomb.....	Total.....	608	28	40	47	49	55	52	47	74	49	67	51	49	---
	Males.....	319	14	21	27	19	26	30	26	44	21	32	26	33	---
	Females.....	288	14	19	20	30	29	22	21	30	27	35	25	16	---
	Unknown.....	1	---	---	---	---	---	---	---	---	1	---	---	---	---
Manistee..... ^a	Total.....	297	26	23	25	31	32	16	29	20	31	22	16	26	---
	Males.....	145	11	10	14	13	19	7	11	8	22	9	8	13	---
	Females.....	152	15	13	11	18	13	9	18	12	9	13	8	13	---
Manitou.....	Total.....	30	2	---	5	1	1	5	4	5	3	---	1	3	---
	Males.....	14	1	---	4	1	1	2	1	2	1	---	---	1	---
	Females.....	16	1	---	1	---	---	3	3	3	2	---	1	2	---
Marquette.....	Total.....	891	56	54	83	81	73	73	65	82	55	77	81	111	---
	Males.....	453	31	28	41	48	39	33	35	48	26	34	39	51	---
	Females.....	438	25	26	42	33	34	40	30	34	29	43	42	60	---
Mason..... ^b	Total.....	140	8	6	15	16	11	14	8	13	20	12	10	7	---
	Males.....	68	4	3	7	8	5	7	3	6	12	6	4	3	---
	Females.....	72	4	3	8	8	6	7	5	7	8	6	6	4	---
Mecosta.....	Total.....	268	13	10	17	29	19	23	33	29	23	22	33	17	---
	Males.....	134	7	5	7	12	12	11	13	15	14	6	19	13	---
	Females.....	134	6	5	10	17	7	12	20	14	9	16	14	4	---
Menominee.....	Total.....	11	2	---	1	2	1	---	2	1	---	1	---	1	---
	Males.....	4	---	---	1	---	1	---	1	---	---	---	---	1	---
	Females.....	7	2	---	---	2	---	---	1	1	---	1	---	---	---
Midland.....	Total.....	158	9	8	11	12	16	5	15	21	19	14	14	14	---
	Males.....	81	5	5	8	8	4	1	9	11	6	11	5	8	---
	Females.....	76	4	3	3	4	12	4	6	10	13	3	9	5	---
	Unknown.....	1	---	---	---	---	---	---	---	---	---	---	---	1	---

^a No returns from townships of Arcadia and
^b No returns from townships of Hamlin, L^a
^c No returns from township of Mt. Hope.

BIRTHS BY COUNTIES, BY MONTHS, BY SEX.

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TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Missaukee.....	Total.....	25	1	1	.....	.....	4	5	3	5	.....	2	1	3	.....
	Males.....	18	1	1	.....	.....	3	3	3	4	.....	2	.....	1	.....
	Females.....	7	.....	.....	.....	.....	1	2	.....	1	.....	.....	1	2	.....
Monroe.....	Total.....	771	39	45	59	68	65	53	78	78	86	67	56	76	1
	Males.....	386	18	26	34	34	32	23	40	42	44	37	20	35	1
	Females.....	382	21	19	25	34	33	30	38	35	42	29	36	40	.....
	Unknown.....	3	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....
Montcalm.....	Total.....	413	9	28	31	43	40	52	33	35	42	29	42	29	.....
	Males.....	223	5	19	19	27	20	27	15	10	26	15	20	14	.....
	Females.....	188	4	9	12	16	20	23	18	19	16	14	22	15	.....
	Unknown.....	2	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Muskegon.....	Total.....	471	32	25	38	26	43	38	46	48	45	39	47	43	1
	Males.....	241	22	13	16	9	20	19	24	26	27	16	27	21	1
	Females.....	229	10	12	21	17	23	19	22	22	18	23	20	22	.....
	Unknown.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newaygo.....	Total.....	166	6	14	10	13	18	6	17	17	15	15	16	19	.....
	Males.....	83	4	5	6	6	8	4	11	6	4	9	9	11	.....
	Females.....	82	2	9	4	7	10	2	6	11	11	6	7	7	.....
	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Oakland.....	Total.....	552	36	26	55	54	51	41	49	44	53	46	41	55	1
	Males.....	276	20	13	30	37	25	17	24	21	26	21	18	24	.....
	Females.....	276	16	13	25	17	26	24	25	23	27	25	23	31	1
Oceana.....	Total.....	249	8	15	15	22	18	34	15	33	24	24	16	25	.....
	Males.....	125	5	8	5	8	7	18	7	19	11	16	8	13	.....
	Females.....	124	3	7	10	14	11	16	8	14	13	8	8	12	.....
Ontonagon.....	Total.....	91	9	13	10	6	11	13	5	5	3	1	6	9	.....
	Males.....	45	8	8	3	4	3	6	2	2	1	.....	3	5	.....
	Females.....	46	1	5	7	2	8	7	3	3	2	1	3	4	.....
Osceola.....	Total.....	210	12	10	16	13	26	16	26	20	21	18	15	12	.....
	Males.....	109	7	6	9	10	14	9	14	12	8	7	8	5	.....
	Females.....	101	5	4	7	8	12	7	12	8	13	11	7	7	.....
Ottawa.....	Total.....	872	54	52	70	72	77	64	69	89	80	80	83	80	2
	Males.....	467	26	22	43	38	45	31	41	43	46	40	42	48	2
	Females.....	405	28	30	27	34	32	33	28	46	34	40	41	32	.....
Presque Isle.....	Total.....	22	3	.....	1	.....	4	2	.....	5	2	1	1	2	.....
	Males.....	10	3	.....	1	.....	3	.....	.....	1	2	.....	.....	.....	.....
	Females.....	12	.....	.....	.....	.....	1	2	.....	4	.....	1	1	2	.....

* No returns from township of Brooks.

† No returns from townships of Presque Isle and Rogers.

TABLE IV.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Saginaw.....	Total.....	1,355	94	86	115	109	96	103	128	137	129	128	101	128	1
	Males.....	710	57	44	61	57	44	56	73	71	63	63	48	72	1
	Females.....	643	37	42	54	52	52	47	55	65	66	64	53	56	---
	Unknown.....	2	---	---	---	---	---	---	---	1	---	1	---	---	---
Sanilac.....	Total.....	520	24	36	49	48	44	50	42	50	55	41	31	50	---
	Males.....	294	12	19	30	26	28	31	20	34	26	24	19	25	---
	Females.....	226	12	17	19	22	16	19	22	16	29	17	12	25	---
Schoolcraft.....	Total.....	49	4	7	4	9	2	---	5	2	4	3	4	5	---
	Males.....	29	2	6	2	6	1	---	2	1	2	2	4	1	---
	Females.....	20	2	1	2	3	1	---	3	1	2	1	---	4	---
Shiawassee.....	Total.....	453	24	29	30	31	36	43	42	59	44	34	47	33	1
	Males.....	230	8	13	13	16	20	28	28	30	20	19	24	16	---
	Females.....	223	16	16	17	15	16	15	19	29	24	15	23	17	1
St. Clair.....	Total.....	1,014	46	70	87	72	86	64	93	107	111	97	94	85	---
	Males.....	526	21	41	44	35	47	29	59	63	43	54	48	42	---
	Females.....	486	25	29	43	37	39	35	36	44	68	42	46	42	---
	Unknown.....	2	---	---	---	---	---	---	---	---	---	1	---	1	---
St. Joseph.....	Total.....	440	18	26	30	42	30	44	31	45	46	35	34	59	---
	Males.....	242	13	14	18	28	17	22	21	22	20	17	15	35	---
	Females.....	198	5	12	12	14	13	22	10	23	26	18	19	24	---
Tuscola.....	Total.....	427	35	20	28	29	43	44	39	51	38	29	55	36	---
	Males.....	226	9	8	13	15	24	26	21	24	24	13	32	17	---
	Females.....	201	6	12	15	14	19	18	18	27	14	16	23	19	---
Van Buren.....	Total.....	516	28	38	42	34	38	47	46	68	57	42	42	33	1
	Males.....	272	12	17	18	18	21	22	27	33	38	28	22	16	---
	Females.....	244	16	21	24	16	17	25	19	35	19	14	20	17	1
Washtenaw.....	Total.....	666	34	46	52	39	58	63	69	67	59	56	53	66	2
	Males.....	337	13	23	31	24	26	28	33	37	31	26	30	34	1
	Females.....	329	21	23	21	15	32	35	36	30	28	30	23	32	1
Wayne.....	Total.....	4,354	313	308	334	280	318	311	385	407	431	372	426	463	6
	Males.....	2,289	166	172	174	143	155	167	208	220	230	197	217	238	2
	Females.....	2,055	147	135	160	137	163	144	175	187	201	174	207	225	---
	Unknown.....	10	---	1	---	---	---	---	2	---	---	1	2	---	4
Wexford.....	Total.....	60	3	1	7	4	5	5	7	6	2	4	13	3	---
	Males.....	32	---	1	3	1	3	3	3	4	1	3	8	2	---
	Females.....	28	3	---	---	---	---	---	---	---	---	---	5	1	---

• No returns from townships of Clam Lake

Table V. gives valuable evidence of the birth-rate, and of the proportions of the two sexes among children born in Michigan, to the different races of people. The table would be a little more satisfactory if it employed the numbers of inhabitants of each race, in 1874—the year in which the births occurred; but the State Census which was taken in 1874 is not useful for this purpose, as it did not include such statistics. From the column in this table headed “Per cent. of children born to inhabitants,” it appears that the birth-rate was greater than the average among the Indians, while among the white inhabitants it was a little less than the average. The distinctions between the black and mulatto are not usually accurately made, and for this reason the black and mulatto should be studied together. The birth-rate among the black and mulatto inhabitants, which includes all of African descent, is much smaller than the average for all races.

The per cent. of children to women aged 18 to 45 years—child-bearing ages—is also large among the Indians, small among those of the African race, and slightly smaller than the average of all among the white inhabitants.

For each of the years 1870–1874, the birth-rate was greatest among the Indians, and least among the African race (“Black and Mulatto”); and for each of the above-mentioned years the proportion of female children was greatest among the Indians, and the proportion of males was greatest among the African race. Apparently these are instances of large birth-rates coincident with a large proportion of female children, and small birth-rates coincident with a large proportion of male children; and such coincidences have been found by the compiler to be most frequent. If it is true that the women exercise more control than do the men over the increase or decrease of the birth-rate, then the foregoing may be evidence that increased vigor, or at least willingness to bear children, on the part of the women leads to an increased proportion of female children. It seems to be a well-established fact in vital statistics that the proportion of females is much greater among illegitimate children than among children born in wedlock. Whether or not the willingness, in either of the two cases just mentioned, extends to the bearing of children is a question not profitably discussed here, though knowledge of the conditions which determine the sex of children is of acknowledged importance.

There were 137 births returned for 1874 without the statement of the color of the children being given. This is a much larger number than should be thus reported, and a little effort on the part of a few persons would have greatly reduced the number compiled as unknown color; for instance, by turning to Table VI., it may be seen that 110 of the 137 births returned without the color being specified are reported from counties as follows: Ionia 59, Montcalm 15, Muskegon 36. By referring to the returns, we find that 32 of the 59 in Ionia county were returned from Orleans township, and 26 from Orange township; the 15 from Montcalm county were from Evergreen township; and the 36 from Muskegon county were from “Muskegon.” If these few officers had made proper returns of the color, the number compiled as of unknown color would have been reduced from 137 to 27.

TABLE V.—*Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1870, the Number of Children returned as having been born in the State during the year 1874, the Per Cent. of Children born in 1874 to Inhabitants in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such Child-bearing ages, the Per Cent. of Children of each Sex to the total Number of both sexes, and the Number of Inhabitants to each Child born of the Same Color. (Still-births included.)*

COLOR OR RACE.	SEX.	Population June 1, 1870, Represented by Births in 1874.	Children born in 1874.	Per Cent. of Chil- dren born to In- habitants, by Sex.	Women, June 1, 1870, Aged 18 and under 45 Years.	Per Cent. of Chil- dren to Women Aged 18 to 45 Yrs.	Per Cent. of each Sex to Children of both Sexes.	Inhabitants to one Child born, by Color and Sex.
All Colors	Total	1,180,353	31,151	2.639		13.509		37.89
	Males	616,109	16,283	2.643			52.35	37.84
	Females	564,244	14,819	2.627	230,500		47.65	38.08
	Unknown		49					
White	Total	1,163,966	30,643	2.632		13.479		37.98
	Males	607,601	16,011	2.635			52.30	37.95
	Females	556,365	14,600	2.624	227,331		47.70	38.11
	Unknown		32					
Black	Total	5,521	146	2.644				37.82
	Males	3,047	88	2.885			60.27	34.63
	Females	* 2,474	58	2.344			39.73	42.68
Mulatto	Total	6,215	83	1.335				74.88
	Males	3,137	47	1.498			56.63	66.74
	Females	3,078	36	1.170			43.37	85.50
Indian	Total	4,651	142	3.053		15.220		32.75
	Males	2,324	63	2.711			44.37	36.89
	Females	2,327	79	3.395	933		55.63	29.46
Unknown color	Total		137					
	Males		74				61.67	
	Females		46				38.33	
	Unknown		17					
Black and Mulatto.	Total	11,736	229	1.951		9.845		51.25
	Males	6,184	135	2.183			58.95	45.81
	Females	5,552	94	1.693	2,326		41.05	59.06

* Number ascertained from U. S. Census of 1870, Vital Statistics Volume, pp. 560-569.

† Includes all of African descent.

TABLE VI.—*Exhibiting for the State and Counties of Michigan, by Sex, the Number of Inhabitants in 1874, the Per Cent. of Births Returned for 1874 to Population in 1874, the Number of Males to 100 Females born during the Year 1874, and by Sex and Color the Number of Children Returned as having been born during the Year ending December 31, 1874. (Still-births included.)*

STATE AND COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Inhab- itants in 1874 Repre- sented by Births in 1874.	Per Ct. of Births of Each Sex to Popula- tion of same Sex.	COLOR,—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Un- kno'n
State..... ^a	110	Total.....	-----	1,325,983	2.35	31,151	30,643	146	83	143	137
		Males.....	52.35	692,642	2.35	16,283	^b 16,011	^c 88	47	^d 63	^e 74
		Females..	47.65	633,341	2.34	14,819	^f 14,600	^g 53	36	^h 79	146
		Unknown	-----	-----	-----	49	32	-----	-----	17	
Alcona..... ^j	138	Total.....	-----	1,214	2.72	33	32	-----	-----	-----	1
		Males.....	58.06	688	2.62	18	18	-----	-----	-----	-----
		Females..	41.94	526	2.47	13	13	-----	-----	-----	-----
		Unknown	-----	-----	-----	2	1	-----	-----	-----	1
Allegan.....	109	Total.....	100.00	32,381	2.15	697	689	-----	4	5	-----
		Males.....	52.22	16,976	2.14	364	361	-----	8	-----	-----
		Females..	47.78	15,405	2.16	333	327	-----	1	5	-----
		Unknown	-----	-----	-----	-----	-----	-----	-----	-----	-----
Alpena..... ^k	104	Total.....	100.00	4,697	2.30	108	108	-----	-----	-----	-----
		Males.....	50.93	2,730	2.02	55	55	-----	-----	-----	-----
		Females..	49.07	1,967	2.69	53	53	-----	-----	-----	-----
		Unknown	-----	-----	-----	-----	-----	-----	-----	-----	-----
Antrim.....	131	Total.....	100.00	3,002	3.46	104	98	-----	-----	6	-----
		Males.....	56.73	1,654	3.57	59	56	-----	-----	3	-----
		Females..	43.27	1,348	3.34	45	42	-----	-----	3	-----
		Unknown	-----	-----	-----	-----	-----	-----	-----	-----	-----
Baraga..... ^l	283	Total.....	100.00	-----	-----	46	39	-----	-----	7	-----
		Males.....	73.91	-----	-----	34	29	-----	-----	^m 5	-----
		Females..	26.09	-----	-----	12	10	-----	-----	ⁿ 2	-----
		Unknown	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barry.....	116	Total.....	100.00	22,051	2.37	522	519	-----	3	-----	-----
		Males.....	53.74	11,588	2.42	280	278	-----	2	-----	-----
		Females..	46.26	10,463	2.30	241	240	-----	1	-----	-----
		Unknown	-----	-----	-----	1	1	-----	-----	-----	-----
Bay..... ^k	110	Total.....	100.00	24,655	3.89	960	953	2	1	3	1
		Males.....	52.29	13,538	3.70	502	497	1	1	2	^o 1
		Females..	47.71	11,097	4.13	458	456	1	-----	1	-----
		Unknown	-----	-----	-----	-----	-----	-----	-----	-----	-----

^a For counties and townships from which no returns were received, see Table XXI. of Births by months. ^b 1 Triplet. ^c 10 "Colored." ^d 4 "Half-Indian," and 16 White and Indian. ^e 1 "Creole." ^f 2 Triplets. ^g 10 "Colored," and 1 "Negro." ^h 1 "Half-Indian," and 11 White and Indian. ⁱ 1 "Highly Colored." ^j Includes population of Osceola County. ^k Except of townships not represented by returns of births, for which see Table XXI. ^l Population of Baraga County cannot be ascertained. It was compiled with Houghton. ^m 4 "Half-Indian," and 1 White and Indian. ⁿ 1 "Half-Indian."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to To- tal of both Sexes.	Inhab- itants in 1874 Repre- sented by Births in 1874.	Per Ct. of Births of Each Sex to Population of same Sex.	COLOR,—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Un- kno'n.
Benzie	73	Total	100.00	2,663	2.86	76	75	.....	1	.....	.....
		Males	42.11	1,422	2.25	32	32	.....	.....	.....	.....
		Females..	57.89	1,241	3.54	44	43	.....	1	.....	.....
Berrien	104	Total	100.00	35,029	1.55	541	527	5	8	.....	1
		Males	51.02	17,942	1.54	276	266	4	5	.....	1
		Females..	48.98	17,087	1.55	265	261	1	3	.....	.....
Branch	127	Total	100.00	25,726	1.94	496	497	.....	.....	1	.....
		Males	55.94	13,041	2.13	278	278	.....	.....	.....	.....
		Females..	44.06	12,685	1.73	219	218	.....	.....	1	.....
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....	.....
Calhoun	118	Total	100.00	35,655	1.54	550	540	5	3	2	.....
		Males	54.18	18,156	1.64	296	294	2	.....	2	.....
		Females..	45.82	17,499	1.44	252	246	3	3	.....	.....
Cass	118	Total	100.00	20,525	1.57	322	301	10	11	.....	.....
		Males	54.04	10,592	1.64	174	161	6	7	.....	.....
		Females..	45.96	9,933	1.49	149	140	4	4	.....	.....
Charlevoix..	137	Total	100.00	2,360	2.71	64	56	2	.....	6	.....
		Males	57.81	1,280	2.81	37	33	2	.....	2	.....
		Females..	42.19	1,080	2.50	27	23	.....	.....	4	.....
Cheboygan..	119	Total	100.00	3,070	3.42	105	101	1	.....	3	.....
		Males	54.29	1,706	3.34	57	57	.....	.....	.....	.....
		Females..	45.71	1,364	3.52	48	44	1	.....	3	.....
Chippewa.. ^b	83	Total	100.00	1,949	3.75	73	46	.....	.....	27	.....
		Males	45.21	1,091	3.03	33	24	.....	.....	9	.....
		Females..	54.79	858	4.66	40	22	.....	.....	18	.....
Clare	135	Total	100.00	1,354	2.95	40	40	.....	.....	.....	.....
		Males	57.50	745	3.09	23	23	.....	.....	.....	.....
		Females..	42.50	609	2.79	17	17	.....	.....	.....	.....
Clinton	112	Total	100.00	23,661	2.18	515	515	.....	.....	.....	.....
		Males	52.92	12,162	2.24	272	272	.....	.....	.....	.....
		Females..	47.08	11,499	2.10	242	243	.....	.....	.....	.....
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....	.....
Delta	93	Total	100.00	4,355	3.05	133	128	.....	.....	5	.....
		Males	49.12	2,653	2.41	64	61	.....	.....	3	.....
		Females..	51.88	1,702	4.06	69	67	.....	.....	2	.....

^a 2 White and Indian. ^b
see Table XXI. ^c 8 White

for which

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of Both Sexes.	Inhabitants in 1874 Represented by Births in 1874.	Per Ct. of Births of Each Sex to Population of same Sex.	COLOR.—CHILDREN IN 1874.				
						Total of all Colors.	White.	Black.	Mu-latto.	Indian.
Eaton.....	114	Total.....	100.00	28,907	2.00	540	537	1	-----	2
		Males.....	53.28	18,875	2.06	286	285	1	-----	-----
		Females..	46.74	18,032	1.93	251	250	-----	-----	1
		Unknown.....	-----	-----	-----	3	2	-----	-----	1
Emmet.....	106	Total.....	100.00	1,272	3.07	39	9	-----	-----	30
		Males.....	51.28	669	2.99	20	4	-----	-----	16
		Females..	48.72	606	3.15	19	5	-----	-----	14
		Unknown.....	-----	-----	-----	-----	-----	-----	-----	-----
Genesee.....	129	Total.....	100.00	24,568	1.63	564	563	-----	1	-----
		Males.....	56.31	17,536	1.81	317	317	-----	-----	-----
		Females..	43.69	17,032	1.44	246	245	-----	1	-----
		Unknown.....	-----	-----	-----	1	1	-----	-----	-----
Gladwin....	400	Total.....	100.00	288	1.89	5	5	-----	-----	-----
		Males.....	80.00	145	2.76	4	4	-----	-----	-----
		Females..	20.00	129	.88	1	1	-----	-----	-----
		Unknown.....	-----	-----	-----	-----	-----	-----	-----	-----
Gr. Traverse. b	149	Total.....	100.00	4,741	2.05	97	97	-----	-----	-----
		Males.....	59.79	2,479	2.84	58	58	-----	-----	-----
		Females..	40.21	2,262	1.73	39	39	-----	-----	-----
		Unknown.....	-----	-----	-----	-----	-----	-----	-----	-----
Gratiot.....	190	Total.....	100.00	13,886	2.71	376	376	-----	-----	-----
		Males.....	54.62	7,304	2.81	205	205	-----	-----	-----
		Females..	45.48	6,582	2.60	171	171	-----	-----	-----
		Unknown.....	-----	-----	-----	-----	-----	-----	-----	-----
Hillsdale....	103	Total.....	100.00	31,586	1.41	444	443	-----	-----	1
		Males.....	50.79	16,971	1.41	225	225	-----	-----	-----
		Females..	49.21	15,695	1.40	218	218	-----	-----	-----
		Unknown.....	-----	-----	-----	1	-----	-----	-----	1
Houghton. •	110	Total.....	100.00	19,180	4.19	798	798	-----	-----	-----
		Males.....	52.45	11,013	3.80	418	418	-----	-----	-----
		Females..	47.55	8,017	4.73	379	379	-----	-----	-----
		Unknown.....	-----	-----	-----	1	1	-----	-----	-----
Huron..... b	131	Total.....	100.00	11,516	3.73	430	429	-----	1	-----
		Males.....	56.64	6,306	3.83	243	243	-----	-----	-----
		Females..	43.36	5,150	3.61	186	183	-----	1	-----
		Unknown.....	-----	-----	-----	1	1	-----	-----	-----
Ingham.....	101	Total.....	100.00	29,193	1.99	543	578	3	2	-----
		Males.....	50.17	15,204	1.92	292	289	2	1	-----
		Females..	49.83	13,989	2.07	250	288	1	1	-----
		Unknown.....	-----	-----	-----	1	1	-----	-----	-----

• 2 White and Indian. b Except of townships not represented by returns of Births, for which see Table XXI. • Includes population of Baraga County.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to To- tal of both Sexes.	Inhab- itants in 1874 Repre- sented by Births in 1874.	Per Ct. of Births of Each Sex to Popula- tion of same Sex.	COLOR.—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Un- kno'n.
Ionia	109	Total	100.00	28,376	2.10	595	534	2	.....	.....	59
		Males.....	52.10	14,788	2.10	310	272	1	.....	.....	37
		Females..	47.90	13,588	2.10	285	262	1	.....	.....	22
Iosco..... a b	129	Total	100.00	3,679	2.17	80	79	.....	.....	.....	1
		Males.....	56.41	2,244	1.96	44	44	.....	.....	.....	.....
		Females..	43.59	1,435	2.37	34	34	.....	.....	.....	.....
		Unknown .....	.....	.....	.....	2	1	.....	.....	.....	1
Isabella.... a	120	Total	100.00	5,005	2.46	123	119	.....	1	3	.....
		Males.....	54.47	2,724	2.46	67	66	.....	.....	1	.....
		Females..	45.53	2,281	2.46	56	53	.....	1	2	.....
Jackson.....	93	Total	100.00	37,988	1.87	713	710	2	1	.....	.....
		Males.....	48.60	19,833	1.74	346	344	2	.....	.....	.....
		Females..	51.40	18,135	2.01	366	365	.....	1	.....	.....
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....	.....
Kalamazoo..	97	Total	100.00	32,284	1.95	632	616	12	1	.....	3
		Males.....	49.13	16,583	1.86	309	305	4	.....	.....	.....
		Females..	50.87	15,701	2.04	320	311	4	1	.....	.....
		Unknown .....	.....	.....	.....	3	.....	.....	.....	.....	3
Kalkaska....	133	Total	100.00	1,259	5.16	65	65	.....	.....	.....	.....
		Males.....	56.92	692	3.35	37	37	.....	.....	.....	.....
		Females..	43.08	567	4.94	28	28	.....	.....	.....	.....
Kent	107	Total	100.00	62,571	2.43	1,523	1,522	1	.....	.....	5
		Males.....	51.74	32,576	2.42	788	785	1	.....	.....	2
		Females..	48.26	30,095	2.44	735	735	.....	.....	.....	.....
		Unknown .....	.....	.....	.....	5	2	.....	.....	.....	3
Keweenaw..	130	Total	100.00	5,415	3.95	214	214	.....	.....	.....	.....
		Males.....	56.54	3,237	3.74	121	121	.....	.....	.....	.....
		Females..	43.46	2,178	4.27	93	93	.....	.....	.....	.....
Lake	74	Total	100.00	1,813	3.25	59	59	.....	.....	.....	.....
		Males.....	42.37	1,015	2.46	25	25	.....	.....	.....	.....
		Females..	57.63	798	4.26	34	34	.....	.....	.....	.....
Lapeer.....	111	Total	100.00	25,140	1.95	491	489	1	1	.....	.....
		Males.....	54.29	13,085	2.03	266	266	.....	.....	.....	.....
		Females..	45.71	12,045	1.86	224	223	1	1	.....	.....
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....	.....

a Except of townships not represented by returns of births, for which see Table XXI. b Includes population of Ogemaw County. c d "Colored." e d "Colored."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Inhabitants in 1874 Represented by Births in 1874.	Per Ct. of Births of Each Sex to Population of same Sex.	COLOR,—CHILDREN IN 1874.				
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.
Leelanaw...	100	Total....	100.00	5,031	2.23	112	107	-----	1	4
		Males....	50.00	2,592	2.08	56	53	-----	1	3
		Females..	50.00	2,339	2.39	56	55	-----	-----	1
Lenawee....	114	Total....	100.00	46,084	1.57	723	717	4	2	-----
		Males....	53.25	22,256	1.66	385	383	1	1	-----
		Females..	46.75	22,928	1.48	338	334	3	1	-----
Livingston..	85	Total....	100.00	20,329	1.99	406	403	1	2	-----
		Males....	46.06	10,569	1.77	167	166	1	-----	-----
		Females..	53.94	9,760	2.24	239	237	-----	2	-----
Mackinac....	176	Total....	100.00	1,496	3.21	48	47	-----	-----	1
		Males....	63.83	765	3.92	30	30	-----	-----	-----
		Females..	36.17	731	2.33	17	17	-----	-----	-----
		Unknown	-----	-----	-----	1	-----	-----	-----	1
Macomb.....	111	Total....	100.00	22,305	2.15	606	606	-----	-----	-----
		Males....	52.55	14,867	2.22	319	319	-----	-----	-----
		Females..	47.45	13,938	2.07	286	286	-----	-----	-----
		Unknown	-----	-----	-----	1	1	-----	-----	-----
Manistee....	95	Total....	100.00	8,112	3.66	297	297	-----	-----	-----
		Males....	48.82	4,595	3.15	145	145	-----	-----	-----
		Females..	51.18	3,517	4.32	152	152	-----	-----	-----
Manitou.....	87	Total....	100.00	667	4.57	30	30	-----	-----	-----
		Males....	46.67	364	3.85	14	14	-----	-----	-----
		Females..	53.33	293	5.46	16	16	-----	-----	-----
Marquette..	103	Total....	100.00	21,946	4.06	891	885	-----	5	1
		Males....	50.84	12,893	3.51	453	447	-----	5	1
		Females..	49.16	9,053	4.54	438	438	-----	-----	-----
Mason	94	Total....	100.00	4,818	2.91	140	134	-----	-----	6
		Males....	48.67	2,649	2.57	68	66	-----	-----	2
		Females..	51.43	2,169	3.32	72	68	-----	-----	4
Mecosta.....	100	Total....	100.00	9,133	2.93	263	266	2	-----	-----
		Males....	50.00	4,674	2.75	134	134	-----	-----	-----
		Females..	50.00	4,258	3.15	129	132	2	-----	-----
Menominee..	57	Total....	100.00	3,490	.32	11	11	-----	-----	-----
		Males....	38.36	2,213	.18	4	4	-----	-----	-----
		Females..	63.64	1,277	.55	7	7	-----	-----	-----

* Except of townships not represented by returns of births, for which see Table XXI. b White and Indian.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Inhab. itants in 1874 Represented by Births in 1874.	Per Ct. of Births of Each Sex to Population of same Sex.	COLOR,—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Un-kno'n.
Midland.....	107	Total.....	100.00	4,668	3.39	158	156	1	—	—	1
		Males.....	51.59	2,534	3.20	81	80	—	—	—	1
		Females..	48.41	2,132	3.56	76	75	1	—	—	—
		Unknown.....	—	—	—	1	1	—	—	—	—
Missaukee ..	257	Total.....	100.00	606	4.13	25	25	—	—	—	—
		Males.....	72.00	395	4.56	18	18	—	—	—	—
		Females..	28.00	211	3.32	7	7	—	—	—	—
		Unknown.....	—	—	—	—	—	—	—	—	—
Monroe.....	101	Total.....	100.00	30,111	2.56	771	770	—	1	—	—
		Males.....	50.26	15,302	2.53	386	386	—	—	—	—
		Females..	49.74	14,809	2.58	382	381	—	1	—	—
		Unknown.....	—	—	—	3	3	—	—	—	—
Montcalm...	119	Total.....	100.00	20,815	1.98	413	396	1	1	—	15
		Males.....	54.26	11,811	1.97	223	213	1	1	—	8
		Females..	45.74	9,504	1.98	188	181	—	—	—	7
		Unknown.....	—	—	—	2	2	—	—	—	—
Muskegon ..	105	Total.....	100.00	19,375	2.43	471	435	—	—	—	36
		Males.....	51.28	10,761	2.24	241	219	—	—	—	22
		Females..	48.72	8,614	2.66	229	215	—	—	—	14
		Unknown.....	—	—	—	1	1	—	—	—	—
Newaygo...	101	Total.....	100.00	7,578	2.19	166	164	—	—	2	—
		Males.....	50.30	4,248	1.95	83	82	—	—	1	—
		Females..	49.70	3,332	2.46	82	81	—	—	1	—
		Unknown.....	—	—	—	1	1	—	—	—	—
Oakland.....	100	Total.....	100.00	33,082	1.42	552	548	4	—	—	—
		Males.....	50.00	19,416	1.42	276	274	2	—	—	—
		Females..	50.00	18,638	1.43	276	274	2	—	—	—
		Unknown.....	—	—	—	—	—	—	—	—	—
Oceana.....	101	Total.....	100.00	8,360	2.97	249	236	1	—	12	—
		Males.....	50.20	4,581	2.73	125	121	1	—	6 3	—
		Females..	49.80	3,779	3.28	124	115	—	—	6 9	—
		Unknown.....	—	—	—	—	—	—	—	—	—
Ontonagon..	98	Total.....	100.00	2,406	3.78	91	88	—	—	3	—
		Males.....	49.45	1,276	3.53	45	45	—	—	—	—
		Females..	50.55	1,130	4.07	46	43	—	—	3	—
		Unknown.....	—	—	—	—	—	—	—	—	—
Osceola.....	108	Total.....	100.00	6,216	3.33	210	210	—	—	—	—
		Males.....	51.90	3,491	3.12	109	109	—	—	—	—
		Females..	48.10	2,725	3.71	101	101	—	—	—	—

* Except of townships not represented by returns of births, for white and Indian.

BIRTHS BY COUNTIES, BY SEX, BY COLOR.

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TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Inhab- itants in 1874 Rep- re- sented by Births in 1874.	Per Ct. of Births of Each Sex to Popula- tion of same Sex.	COLOR,—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Un- kno'n.
Ottawa.....	115	Total.....	100.00	29,929	2.91	872	867	5	-----	-----	-----
		Males.....	53.56	15,789	2.96	467	462	5	-----	-----	-----
		Females..	46.44	14,140	2.86	405	405	-----	-----	-----	-----
Pres. Isle a b	83	Total.....	100.00	1,615	1.36	22	22	-----	-----	-----	-----
		Males.....	45.45	851	1.18	10	10	-----	-----	-----	-----
		Females..	54.55	764	1.57	12	12	-----	-----	-----	-----
Saginaw.....	110	Total.....	100.00	48,409	2.80	1,355	1,342	2	-----	10	1
		Males.....	52.48	25,968	2.73	710	703	* 1	-----	6	-----
		Females..	47.52	22,441	2.87	643	638	* 1	-----	4	-----
		Unknown	-----	-----	-----	2	1	-----	-----	-----	1
Sanilac.....	130	Total.....	100.00	16,292	3.19	520	519	-----	1	-----	-----
		Males.....	56.54	8,652	3.40	294	296	-----	1	-----	-----
		Females..	43.46	7,640	2.96	226	226	-----	-----	-----	-----
Schoolcraft..	145	Total.....	100.00	1,290	3.79	49	45	-----	-----	4	-----
		Males.....	59.18	824	3.52	29	25	-----	-----	4	-----
		Females..	40.82	466	4.29	20	20	-----	-----	-----	-----
Shiawassee..	103	Total.....	100.00	21,773	2.08	453	452	-----	1	-----	-----
		Males.....	50.77	11,265	2.04	239	229	-----	1	-----	-----
		Females..	49.23	10,508	2.12	223	223	-----	-----	-----	-----
St. Clair.....	108	Total.....	100.00	40,683	2.49	1,014	1,013	-----	-----	-----	1
		Males.....	51.98	21,181	2.43	526	526	-----	-----	-----	-----
		Females..	48.02	19,507	2.49	486	486	-----	-----	-----	-----
		Unknown	-----	-----	-----	2	1	-----	-----	-----	1
St. Joseph ..	122	Total.....	100.00	25,906	1.70	440	439	1	-----	-----	-----
		Males.....	55.00	13,267	1.82	242	241	1	-----	-----	-----
		Females..	45.00	12,639	1.57	198	198	-----	-----	-----	-----
Tuscola.....	112	Total.....	100.00	16,998	2.51	427	427	-----	-----	-----	-----
		Males.....	52.93	8,930	2.53	226	226	-----	-----	-----	-----
		Females..	47.07	8,048	2.50	201	201	-----	-----	-----	-----
Van Buren..	111	Total.....	100.00	29,136	1.77	516	501	6	7	2	-----
		Males.....	52.71	15,062	1.81	272	* 264	† 4	4	-----	-----
		Females..	47.29	14,094	1.73	244	‡ 237	§ 2	3	2	-----
Washtenaw..	102	Total.....	100.00	38,723	1.72	666	659	5	1	-----	1
		Males.....	50.60	19,533	1.72	337	334	* 3	-----	-----	-----
		Females..	49.40	19,170	1.72	329	325	2	1	-----	† 1

a Except of townships not represented by returns of births, for which see Table XXI. b There were no returns of births from supervisors of Presque Isle and Rogers townships, but the population could not be ascertained and hence no deduction for them was made. c 1 "Colored." d 2 White and Indian. e 1 Triplet. f 4 "Colored." g 2 Triplets. h 1 "Colored" and 1 "Negro." i 1 "Highly Colored."

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

COUNTIES.	Number of Males to 100 Females.	SEX.	Per Cent. of Births of Each Sex to Total of both Sexes.	Inhabitants in 1874 Represented by Births in 1874.	Per Ct. of Births of Each Sex to Population of same Sex.	COLOR,—CHILDREN IN 1874.					
						Total of all Colors.	White.	Black.	Mu. latto.	Indian.	Un-kno'n.
Wayne.....	111	Total.....	100.00	144,903	3.00	4,354	4,259	66	22	-----	7
		Males.....	52.69	72,396	3.17	2,289	2,231	42	14	-----	2
		Females.....	47.31	72,597	2.83	2,065	2,022	24	8	-----	1
		Unknown.....	-----	-----	-----	10	6	-----	-----	-----	4
Wexford.... ^a	114	Total.....	100.00	1,765	3.40	60	60	-----	-----	-----	-----
		Males.....	53.33	1,041	3.07	32	32	-----	-----	-----	-----
		Females.....	46.67	724	3.87	28	28	-----	-----	-----	-----

^a Except of townships not represented by returns of births, for which see Table XXI.

Table VI. furnishes data for profitable study of the birth-rate in the different counties of the State. As in previous Reports, we make four propositions concerning the births in the several counties, as follows: 1, greater than average birth-rate, more than average proportion of males; 2, greater than average birth-rate, less than average proportion of males; 3, less than average birth-rate, less than average proportion of males; 4, less than average birth-rate, more than average proportion of males. Three counties had the average proportion of males, with greater than average birth-rate; and of the remaining 68 counties for which a statement is made, the first proposition is true of 19 counties, the second is true of 15 counties, the third is true of 16 counties, and the fourth is true of 18 counties. The proposition that a *greater* than average birth-rate is attended with *less* than average proportion of male children, and *vice versa*, holds true in 34 out of 67 counties in 1871, 37 out of 68 counties in 1872, 26 out of 69 counties in 1873, and in 33 out of 68 counties in 1874. It will be seen, therefore, that this proposition holds true as a rule in only 1871 and 1872, while for the year 1873 the opposite proposition holds true as a rule, viz.: *greater* than average birth-rate is attended with *more* than average proportion of male children, and *vice versa*; this proposition holds true in 41 out of 69 counties in 1873; and in 35 out of 71 counties in 1874, so that in 1874 there is no rule shown, although this last proposition holds true more than any other.

BIRTH-RATE OF NATIVE AND OF FOREIGN-BORN INHABITANTS.

Exhibit H shows the birth-rate in Michigan in each of the years 1870-1874, according to the returns, based upon the population June 1, 1870, represented by returns of births for the different years. This exhibit indicates that the birth-rate among the foreign-born inhabitants is very much greater than among the native for each of the years 1870-1874; but it does not deal with the fact that of the foreign-born a much larger proportion than of the native inhabitants are of the middle or child-bearing ages. This subject may be studied in the Exhibits F, I, K, and L, the last two lines in each giving *per cent.* bearing upon it, and also in Exhibit J, in which *per cent.* *and more*

EXHIBIT H.—*Parent-Nativity of Children born in Michigan during the Years 1870, 1871, 1872, 1873, and 1874,—Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants June 1, 1870.*

NATIVITY OF PARENTS OF CHILDREN, AND NATIVITY OF INHABITANTS.	NATIVE AND FOREIGN-BORN POPULATION, JUNE 1, 1870. ^a			PARENTS OF CHILDREN BORN IN 1870, 1871, 1872, 1873, AND 1874.						
				Years of Birth.	NUMBER. ^b			PER CT. OF PARENTS TO POPULATION OF SAME SEX AND NATIVITY.		
	Total.	Males.	Females.		Both Parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities..... ^c	1,158,166	603,655	554,511	1870	52,632	26,316	26,316	4.54	4.36	4.75
Native..... ^d	904,740	463,422	441,318		27,972	13,531	14,441	3.09	2.92	3.27
Foreign..... ^d	253,426	140,233	113,193		20,532	10,721	9,811	8.10	7.65	8.67
All Nativities..... ^c	1,147,234	597,767	549,466	1871	51,376	25,688	25,688	4.48	4.30	4.68
Native..... ^d	894,202	457,914	436,288		25,778	12,447	13,331	2.98	2.72	3.06
Foreign..... ^d	253,032	139,854	113,178		20,554	10,719	9,835	8.12	7.66	8.67
All Nativities..... ^c	1,169,283	609,946	559,337	1872	55,282	27,641	27,641	4.73	4.53	4.94
Native..... ^d	908,625	465,386	443,239		29,420	14,067	15,353	3.24	3.03	3.46
Foreign..... ^d	260,658	144,560	116,098		23,073	12,154	10,918	8.85	8.41	9.40
All Nativities..... ^c	1,179,062	615,228	563,834	1873	68,356	34,178	34,178	5.80	5.56	6.06
Native..... ^d	915,366	468,888	446,478		37,379	17,914	19,365	4.07	3.82	4.34
Foreign..... ^d	263,716	146,340	117,376		28,623	15,136	13,686	10.93	10.34	11.66
All Nativities..... ^c	1,180,353	616,109	564,244	1874	61,478	30,739	30,739	5.21	4.99	5.45
Native..... ^d	915,679	469,105	446,574		31,092	14,834	16,258	3.40	3.16	3.64
Foreign..... ^d	264,674	147,004	117,670		25,452	13,438	12,014	9.61	9.14	10.21

^a Population, 1870, represented by births in the respective years of births.

^b As shown by number of children after subtracting the proper number for twins and triplets.

^c Includes parents of unknown nativities.

^d Excluding cases where nativity of either parent is unknown.

Table VII. shows the number and proportion of births in Michigan in 1874, by sex and parent-nativity. The largest proportion is of children whose parents were both native. The number of children whose parent-nativity was not returned is larger than for any year since 1871.

All this evidence will become more valuable whenever an amended census law shall provide better statistics of the nativity and parent-nativity of the inhabitants, with which to compare these statistics of births.

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children born in Michigan during the Year 1874.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS, 1874.							
	NUMBER.				PER CENT. OF TOTAL.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....	31,151	16,283	14,819	49	100.00	100.00	100.00	100.00
Both Parents Native.....	13,341	6,982	6,344	15	42.83	42.88	42.81	30.82
Both Parents Foreign.....	10,517	5,469	5,034	14	33.76	33.59	33.97	28.57
Foreign Father and Native Mother	3,130	1,679	1,448	3	10.05	10.31	9.77	6.12
Foreign Mother and Native Father.	1,080	867	811	2	3.39	5.32	5.43	4.08
Unknown Mother, Father Native..	707	367	339	1	2.27	2.25	2.29	2.04
Unknown Mother, Father Foreign..	947	493	430	2	3.04	3.04	3.04	4.08
Unknown Father, Mother Native..	194	93	99	.....	.62	.58	.68	.....
Unknown Father, Mother Foreign..	197	103	92	.....	.63	.64	.62	.....
Both Unknown.....	438	221	202	12	1.41	1.37	1.36	24.49
One or Both Native.....	19,052	9,990	9,041	21	61.16	61.35	61.01	42.86
One or Both Foreign.....	16,471	8,615	7,835	21	52.87	52.90	52.87	42.86

In order to understand the relation which the per cent. of children born of native or of foreign-born parents bears to the per cent. of native and of foreign-born inhabitants at the child-bearing or middle ages, the last two lines in each of the Exhibits F, I, K, and L, and in Table VII., should be studied together.

EXHIBIT F.—*Parent-Nativity of Children born in Michigan during the Years 1869, 1870, 1871, 1872, 1873, and 1874.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS, 1869.		BIRTHS, 1870.		BIRTHS, 1871.		BIRTHS, 1872.		BIRTHS, 1873.		BIRTHS, 1874.	
	Num. ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.	Num. ber.	Per Cent. of Total.
All Nativities.....	27,093	100.00	26,683	100.00	25,992	100.00	27,993	100.00	34,608	100.00	31,151	100.00
Both Parents Native....	13,060	48.20	12,395	46.48	11,374	43.75	12,907	46.11	16,202	46.81	13,341	42.83
Both Parents Foreign..	8,043	29.68	8,604	32.26	8,734	33.60	9,721	34.73	11,946	34.52	10,517	33.76
Father Foreign and Mother Native.....	1,904	7.02	2,246	8.42	2,100	8.11	2,599	9.28	3,388	9.79	3,130	10.05
Mother Foreign and Fa- ther Native.....	1,219	4.49	1,325	4.96	1,217	4.68	1,359	4.85	1,941	5.61	1,680	5.39
One or Both Unknown..	2,867	10.53	2,093	7.84	2,538	9.84	1,407	5.03	1,131	3.27	2,483	7.97
One or Both Parents Native.....	16,183	59.73	15,996	59.88	14,700	56.55	16,865	60.25	21,531	62.21	16,151	58.57
One or Both Parents Foreign.....	11,166	41.21	12,177	45.11	11,292	43.45	11,128	39.75	13,077	38.01	15,327	49.20

* Excluding cases where nat-

EXHIBIT I.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 15 to 45 Years, stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 15 TO 45 YEARS.*					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities.....	555,352	289,085	266,267	100.00	100.00	100.00
Native-born.....	337,306	195,765	191,541	60.74	67.71	71.93
Foreign-born.....	168,046	93,320	74,726	30.25	32.28	28.06

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

EXHIBIT K.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 20 to 45 Years,—stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN, JUNE 1, 1870, AGED 20 TO 45 YEARS.*					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities.....	436,043	228,874	207,169	100.00	100.00	100.00
Native-born.....	289,004	146,278	142,726	66.28	63.91	68.89
Foreign-born.....	147,039	82,596	64,443	33.72	36.09	31.11

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

EXHIBIT L.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 25 to 45 Years,—stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 25 TO 45 YEARS.*					
	NUMBER.			PER CENT. OF TOTAL.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities.....	320,546	168,756	151,790	100.00	100.00	100.00
Native-born.....	205,374	103,900	101,474	64.07	61.56	66.85
Foreign-born.....	115,172	64,856	50,316	35.93	38.43	33.15

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Exhibit J contains data concerning the birth-rate among the native and foreign-born inhabitants, aged 15 to 45 years—child-bearing ages. By this exhibit, and the similar ones for previous years, it is shown that, using for each year the number of inhabitants shown by the census of 1870, the birth-rate among all inhabitants and among native-born, at child-bearing ages, decreased from 1869 to 1872, in 1872 and 1873 it increased, and in 1874 it decreased again; but among the foreign-born at those ages, the birth-rate has been constantly increasing from 1869 to 1874, when it decreased again nearly in unison with the birth-rate of all nativities.

It may also be seen from this exhibit that the birth-rate among foreign-born women at child-bearing ages is nearly twice as great as among native-born women at the same ages, and the per cent. of foreign-born fathers to the native-born men aged 15 to 45 years is nearly as large in proportion to the native-born.

EXHIBIT J.—By Sex, the Relation of Native and Foreign-born Parents of Children born in Michigan during the Year 1874 to the Native and Foreign-born Inhabitants of Michigan June 1, 1870, at Child-bearing ages,—15 to 45 Years.

NATIVITY OF PARENTS OF CHILDREN BORN.	NUMBER OF PARENTS OF CHILDREN BORN IN 1874. ^a			PER CENT. OF PARENTS OF CHILDREN BORN IN 1874 TO INHABITANTS JUNE 1, 1870, OF SAME NATIVITY AND SEX, AGED 15 TO 45.		
	Both Parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities.....	61,478	30,739	30,739	11.07	10.63	11.54
Both Parents Native	26,352	13,176	13,176	b 6.80	c 6.73	d 6.89
Both Parents Foreign	20,712	10,356	10,356	e 12.33	f 11.10	g 13.86
Foreign Father and Native Mother.....	6,164	3,082	3,082	i 6.61	j 3.30	k 1.61
Foreign Mother and Native Father.....	3,316	1,658	1,658	l 4.44	m 2.22	n .85
One or Both Parents Unknown.....	4,934	2,467	2,467	-----	-----	-----
One or Both Parents Native	35,832	17,916	17,916	b 9.23	c 9.15	d 9.35
One or Both Parents Foreign	30,192	15,096	15,096	e 17.97	f 16.18	g 20.20
Mothers... { Native	-----	-----	16,452	-----	-----	d 8.59
Mothers... { Foreign	-----	-----	12,210	-----	-----	g 16.34
Mothers... { Unknown.....	-----	-----	2,077	-----	-----	-----
Fathers... { Native	-----	15,535	-----	-----	c 7.94	-----
Fathers... { Foreign	-----	14,379	-----	-----	f 15.41	-----
Fathers... { Unknown.....	-----	825	-----	-----	-----	-----

^a As shown by children born, after subtracting the proper number for twins and triplets.

^b Per cent. to native-born inhabitants aged 15 to 45.

^c Per cent. to native-born males aged 15 to 45.

^d Per cent. to native-born females aged 15 to 45.

^e Per cent. to foreign-born inhabitants aged 15 to 45.

^f Per cent. to foreign-born males aged 15 to 45.

^g Per cent. to foreign-born females.

^h Excluding cases where:

None.

BIRTHS BY COUNTIES, PARENT-NATIVITY, AND BY SEX. 33

TABLE VIII.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children returned as having been born during the Year 1874, and the Parent-Nativity of such Children so far as stated in the Returns. (Still-births included.)*

STATE AND COUNTIES.		SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.*								Both Un- known.
				Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
								Father.		Mother.		
								Na- tive.	For- eign.	Na- tive.	For- eign.	
State.....	Total.....	81,151	13,341	10,517	3,130	1,680	707	• 947	• 184	• 197	• 438	
	Males.....	16,283	6,983	5,489	1,679	867	367	495	85	105	224	
	Females..	14,819	6,344	5,034	1,448	811	339	450	99	92	202	
	Unknown	49	15	14	3	2	1	2			12	
Alcona.....	Total.....	33	9	14	5	4			1			
	Males.....	18	6	6	2	3			1			
	Females..	13	2	7	3	1						
	Unknown	2	1	1								
Allegan.....	Total.....	697	388	220	56	19	1	2	2		10	
	Males.....	364	197	124	23	11		2	2		5	
	Females..	333	191	96	33	7	1				5	
	Unknown	108	18	64	10	9		4		1	2	
Alpena.....	Total.....	108	18	64	10	9		4		1	2	
	Males.....	55	9	31	7	5		1			2	
	Females..	53	9	33	3	4		3		1		
	Unknown	104	43	36	17	6					2	
Antrim.....	Total.....	104	43	36	17	6					2	
	Males.....	59	23	20	12	4						
	Females..	45	20	16	5	2					2	
	Unknown	46	3	31	6	3		2			1	
Baraga.....	Total.....	46	3	31	6	3		2			1	
	Males.....	34	1	23	6	1		2			1	
	Females..	12	2	8		2						
	Unknown	522	381	52	50	30			6		3	
Barry.....	Total.....	522	381	52	50	30			6		3	
	Males.....	280	200	33	30	16			1			
	Females..	241	181	19	20	14			5		2	
	Unknown	1									1	
Bay.....	Total.....	960	219	495	117	88	1	4	11	10	15	
	Males.....	502	127	246	60	52	1	3	4		9	
	Females..	458	92	249	57	36		1	7	10	6	
	Unknown											

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." ^b Except of counties and townships not represented by returns of births, for which see Table XXI. ^c 12 Mother "America," 4 2 Father "America," 9 Father "America," 14 "America," 1 "North America," 35 Father "America," 12 Mother "America," ^d Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.*								Both Un- kno'n.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Benzie	Total.....	76	33	21	11	4	1	-----	4	1	1
	Males.....	32	12	10	5	2	-----	-----	2	-----	1
	Females..	44	21	11	6	2	1	-----	2	1	-----
Berrien.....	Total.....	541	338	113	57	24	3	2	3	-----	1
	Males.....	276	177	50	31	12	2	2	1	-----	1
	Females..	265	161	63	26	12	1	-----	2	-----	-----
Branch	Total.....	498	398	41	28	11	5	1	7	1	6
	Males.....	278	230	20	13	7	3	-----	3	1	1
	Females..	219	168	21	15	4	2	1	4	-----	4
	Unknown	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Calhoun.....	Total.....	550	393	73	43	25	2	1	4	2	7
	Males.....	298	222	33	21	13	-----	1	4	1	3
	Females..	252	171	40	22	12	2	-----	-----	1	4
Cass.....	Total.....	322	270	18	16	7	3	-----	3	-----	5
	Males.....	174	147	11	8	3	3	-----	-----	-----	2
	Females..	148	123	7	8	4	-----	-----	3	-----	3
Charlevoix.....	Total.....	64	32	14	10	6	2	-----	-----	-----	-----
	Males.....	37	18	9	6	2	2	-----	-----	-----	-----
	Females..	27	14	5	4	4	-----	-----	-----	-----	-----
Cheboygan.....	Total.....	105	24	50	19	10	1	1	-----	-----	-----
	Males.....	57	8	25	16	6	1	1	-----	-----	-----
	Females..	48	16	25	3	4	-----	-----	-----	-----	-----
Chippewa.....	Total.....	73	21	23	9	4	-----	-----	4	4	8
	Males.....	33	8	11	5	1	-----	-----	1	3	4
	Females..	40	13	12	4	3	-----	-----	3	1	4
Clare	Total.....	40	23	9	6	1	-----	-----	-----	-----	1
	Males.....	23	13	5	4	1	-----	-----	-----	-----	-----
	Females..	17	10	4	2	-----	-----	-----	-----	-----	1
Clinton.....	Total.....	515	330	77	64	25	6	4	4	-----	5
	Males.....	272	158	52	39	13	3	1	2	-----	4
	Females..	242	171	25	25	12	3	3	2	-----	1
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Delta	Total.....	133	19	83	9	3	1	5	1	4	8
	Males.....	64	9	45	2	1	-----	2	-----	1	4
	Females..	69	10	38	7	2	1	3	1	3	4

* "Native" includes only those born in the United States. These cases in which the birthplace was returned as "America" were compensated by returns of births, for which "America" was returned as "Foreign."
 † These cases in which the birthplace was returned as "America" were compensated by returns of births, for which "America" was returned as "Foreign."
 ‡ These cases in which the birthplace was returned as "America" were compensated by returns of births, for which "America" was returned as "Foreign."

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.*								Both Un- kno'n.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Eaton.....	Total.....	540	461	21	30	15	6	2	2	-----	3
	Males.....	286	246	11	16	7	2	2	1	-----	1
	Females..	251	213	10	14	8	4	-----	1	-----	2
	Unknown	3	3	-----	-----	-----	-----	-----	-----	-----	-----
Emmet.....	Total.....	39	35	-----	-----	1	1	-----	1	-----	1
	Males.....	20	17	-----	-----	-----	1	-----	1	-----	1
	Females..	19	18	-----	-----	1	-----	-----	-----	-----	-----
Genesee.....	Total.....	564	376	84	61	37	-----	1	4	-----	1
	Males.....	317	215	41	34	24	-----	-----	2	-----	1
	Females..	246	161	43	27	13	-----	1	2	-----	-----
	Unknown	1	-----	1	-----	-----	-----	-----	-----	-----	-----
Gladwin.....	Total.....	5	5	-----	-----	-----	-----	-----	-----	-----	-----
	Males.....	4	4	-----	-----	-----	-----	-----	-----	-----	-----
	Females..	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Gr'd Traverse. ^b	Total.....	97	51	24	10	8	2	-----	1	1	-----
	Males.....	58	30	14	8	3	2	-----	1	-----	-----
	Females..	39	21	10	2	5	-----	-----	-----	1	-----
Gratiot.....	Total.....	378	235	37	30	22	-----	-----	1	1	-----
	Males.....	205	155	20	17	12	-----	-----	1	-----	-----
	Females..	171	130	17	13	10	-----	-----	-----	1	-----
Hilldale.....	Total.....	444	55	6	10	7	309	38	6	2	11
	Males.....	225	30	3	6	3	157	15	5	-----	6
	Females..	218	24	3	4	4	152	23	1	2	5
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Houghton.....	Total.....	798	32	701	48	14	-----	-----	1	-----	2
	Males.....	418	19	364	26	9	-----	-----	-----	-----	-----
	Females..	379	13	336	22	5	-----	-----	1	-----	2
	Unknown	1	-----	1	-----	-----	-----	-----	-----	-----	-----
Huron..... ^b	Total.....	430	34	326	45	22	-----	-----	-----	2	1
	Males.....	243	26	182	27	7	-----	-----	-----	-----	1
	Females..	186	8	143	18	15	-----	-----	-----	2	-----
	Unknown	1	-----	1	-----	-----	-----	-----	-----	-----	-----
Ingham.....	Total.....	583	424	75	44	28	4	-----	5	-----	3
	Males.....	292	204	33	27	19	4	-----	3	-----	2
	Females..	290	219	42	17	9	-----	-----	2	-----	1
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." ^b Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.*								Both Un- known.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Ionia.....	Total.....	595	391	91	60	36	4	1	2	1	9
	Males.....	310	211	45	27	19	2	1	2	.....	3
	Females.....	285	180	46	33	17	2	.....	.....	1	6
Iosco.....	Total.....	80	18	17	9	5	10	18	.....	.....	3
	Males.....	44	7	8	7	3	5	13	.....	.....	1
	Females.....	34	11	9	2	2	5	5	.....	.....	.....
	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2
Isabella.....	Total.....	123	84	16	12	2	.....	.....	6	3	.....
	Males.....	67	43	10	7	2	.....	.....	3	2	.....
	Females.....	56	41	6	5	.....	.....	.....	3	1	.....
Jackson.....	Total.....	713	467	133	54	45	5	1	3	1	4
	Males.....	346	229	63	30	19	.....	1	1	1	2
	Females.....	366	238	70	23	26	5	.....	2	.....	2
	Unknown.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Kalamazoo.....	Total.....	632	370	170	54	27	7	1	2	1	.....
	Males.....	309	188	74	30	13	3	.....	1	.....	.....
	Females.....	320	180	96	24	14	3	1	1	1	.....
	Unknown.....	3	2	.....	.....	.....	1	.....	.....	.....	.....
Kalkaska.....	Total.....	65	41	10	11	2	.....	.....	1	.....	.....
	Males.....	37	24	5	6	1	.....	.....	1	.....	.....
	Females.....	28	17	5	5	1	.....	.....	.....	.....	.....
Kent.....	Total.....	1,523	615	602	134	98	2	1	4	1	21
	Males.....	788	303	322	101	46	.....	.....	1	1	14
	Females.....	735	312	278	83	51	2	1	3	.....	5
	Unknown.....	5	.....	2	.....	1	.....	.....	.....	.....	2
Keweenaw.....	Total.....	214	7	166	13	1	1	1	1	.....	24
	Males.....	121	4	96	7	.....	.....	1	.....	.....	13
	Females.....	93	3	70	6	1	1	.....	1	.....	11
Lake.....	Total.....	59	37	7	4	6	1	.....	1	.....	3
	Males.....	25	15	4	1	3	.....	.....	1	.....	1
	Females.....	34	22	3	3	3	1	.....	.....	.....	2
Lapeer.....	Total.....	491	180	148	71	54	7	8	4	7	3
	Males.....	266	103	80	48	24	3	5	1	1	1
	Females.....	224	86	67	23	30	4	3	3	6	2
	Unknown.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....

* "Native" includes only those
 who were returned as "American"
 represented by returns of birth.

Those
 who were
 born in
 Michigan.

Those
 who were
 born in
 Michigan.

BIRTHS BY COUNTIES, PARENT-NATIVITY, AND BY SEX. 37

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.								Both Un- kno'n.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Leelanaw.....	Total.....	112	28	68	7	8	-----	-----	-----	1	-----
	Males.....	56	17	30	4	4	-----	-----	-----	1	-----
	Females..	56	11	38	3	4	-----	-----	-----	-----	-----
Lenawee.....	Total.....	723	476	141	60	33	3	1	7	-----	2
	Males.....	385	253	76	36	13	2	-----	3	-----	2
	Females..	338	223	65	24	20	1	1	4	-----	-----
Livingston.....	Total.....	406	290	49	37	26	-----	-----	3	-----	1
	Males.....	187	129	25	19	13	-----	-----	1	-----	-----
	Females..	219	161	24	18	13	-----	-----	2	-----	1
Mackinac.....	Total.....	48	18	-----	3	1	3	-----	1	-----	22
	Males.....	30	13	-----	2	-----	2	-----	-----	-----	13
	Females..	17	5	-----	1	-----	1	-----	1	-----	9
	Unknown	1	-----	-----	-----	1	-----	-----	-----	-----	-----
Macomb.....	Total.....	608	223	263	60	55	3	-----	2	1	1
	Males.....	310	122	131	31	32	1	-----	1	1	-----
	Females..	288	101	131	29	23	2	-----	1	-----	1
	Unknown	1	-----	1	-----	-----	-----	-----	-----	-----	-----
Manistee.....	Total.....	297	50	198	22	7	5	10	2	2	1
	Males.....	145	26	97	10	4	4	3	-----	1	-----
	Females..	152	24	101	12	3	1	7	2	1	1
Manitou.....	Total.....	30	3	23	3	-----	-----	1	-----	-----	-----
	Males.....	14	1	10	2	-----	-----	1	-----	-----	-----
	Females..	16	2	13	1	-----	-----	-----	-----	-----	-----
Marquette.....	Total.....	891	87	711	65	22	-----	-----	-----	5	1
	Males.....	453	53	354	29	12	-----	-----	-----	4	1
	Females..	438	34	357	36	10	-----	-----	-----	1	-----
Mason.....	Total.....	140	60	41	20	6	-----	2	-----	-----	11
	Males.....	68	26	22	9	4	-----	2	-----	-----	5
	Females..	72	34	19	11	2	-----	-----	-----	-----	6
Mecosta.....	Total.....	268	148	65	24	30	-----	-----	-----	-----	1
	Males.....	134	74	36	11	12	-----	-----	-----	-----	1
	Females..	134	74	29	13	18	-----	-----	-----	-----	-----
Menominee.....	Total.....	11	4	5	2	-----	-----	-----	-----	-----	-----
	Males.....	4	2	1	1	-----	-----	-----	-----	-----	-----
	Females..	7	2	4	1	-----	-----	-----	-----	-----	-----

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "American" were compiled with the "Unknown." ^b Except of townships not represented by returns of births, for which see Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.								Both Un- kno'n.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Midland.....	Total.....	158	32	38	21	15	-----	2	-----	-----	-----
	Males.....	81	40	16	15	9	-----	1	-----	-----	-----
	Females.....	76	42	22	6	6	-----	-----	-----	-----	-----
	Unknown.....	1	-----	-----	-----	-----	-----	1	-----	-----	-----
Missaukee.....	Total.....	25	3	13	5	2	-----	1	-----	1	-----
	Males.....	18	2	7	5	2	-----	1	-----	1	-----
	Females.....	7	1	6	-----	-----	-----	-----	-----	-----	-----
Monroe.....	Total.....	771	499	146	81	41	2	-----	1	-----	1
	Males.....	386	259	70	34	21	2	-----	-----	-----	-----
	Females.....	382	239	76	45	20	-----	-----	1	-----	1
	Unknown.....	3	1	-----	2	-----	-----	-----	-----	-----	-----
Montcalm.....	Total.....	413	272	64	32	31	2	-----	2	-----	10
	Males.....	223	146	37	16	14	2	-----	1	-----	7
	Females.....	188	124	27	16	17	-----	-----	1	-----	3
	Unknown.....	2	2	-----	-----	-----	-----	-----	-----	-----	-----
Muskegon.....	Total.....	471	126	225	68	28	3	7	1	5	8
	Males.....	241	66	114	37	15	2	1	1	1	4
	Females.....	229	60	111	31	13	1	5	-----	4	4
	Unknown.....	1	-----	-----	-----	-----	-----	1	-----	-----	-----
Newaygo.....	Total.....	166	97	23	24	12	4	1	2	-----	3
	Males.....	83	53	12	7	4	4	1	-----	-----	2
	Females.....	82	43	11	17	8	-----	-----	2	-----	1
	Unknown.....	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Oakland.....	Total.....	552	320	99	67	33	12	12	5	3	1
	Males.....	276	156	54	33	15	7	8	3	-----	-----
	Females.....	276	164	45	29	19	5	9	2	3	1
Oceana.....	Total.....	249	162	49	13	13	1	2	2	1	1
	Males.....	125	85	21	8	7	-----	2	-----	1	1
	Females.....	124	77	28	10	6	1	-----	2	-----	-----
Ontonagon.....	Total.....	91	8	65	10	4	-----	2	2	-----	-----
	Males.....	45	5	30	6	3	-----	1	-----	-----	-----
	Females.....	46	3	35	4	1	-----	1	2	-----	-----
Osceola.....	Total.....	210	95	76	15	12	6	4	1	-----	1
	Males.....	109	53	36	7	8	4	1	-----	-----	-----
	Females.....	101	42	40	8	4	2	3	1	-----	-----

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with those of township and county represented by returns of births, for which see Table.

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874.	NATIVITY OF PARENTS.—1874.*									
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		Both Un- known.	
							Father.		Mother.			
							Na- tive.	For- eign.	Na- tive.	For- eign.		
Ottawa.....	Total.....	872	485	267	77	36	2	-----	2	1	2	
	Males.....	467	254	144	41	24	1	-----	2	1	-----	
	Females..	405	231	123	36	12	1	-----	-----	-----	2	
Presque Isle..	Total.....	22	1	21	-----	-----	-----	-----	-----	-----	-----	
	Males.....	10	-----	10	-----	-----	-----	-----	-----	-----	-----	
	Females..	12	1	11	-----	-----	-----	-----	-----	-----	-----	
Saginaw.....	Total.....	1,355	379	703	162	79	2	1	3	-----	26	
	Males.....	710	304	363	91	41	1	1	-----	-----	9	
	Females..	643	175	339	71	38	1	-----	3	-----	16	
	Unknown	2	-----	1	-----	-----	-----	-----	-----	-----	1	
Sanilac.....	Total.....	520	53	346	68	48	1	1	1	-----	2	
	Males.....	294	29	194	38	31	-----	1	-----	-----	1	
	Females..	226	24	152	30	17	1	-----	1	-----	1	
Schoolcraft....	Total.....	49	11	29	6	2	-----	-----	-----	-----	1	
	Males.....	29	6	17	4	2	-----	-----	-----	-----	-----	
	Females..	20	5	12	2	-----	-----	-----	-----	-----	1	
Shiawassee....	Total.....	453	297	93	36	25	-----	-----	1	-----	1	
	Males.....	230	150	50	17	13	-----	-----	-----	-----	-----	
	Females..	223	147	43	19	12	-----	-----	1	-----	1	
St. Clair.....	Total.....	1,014	194	523	151	81	27	35	-----	1	2	
	Males.....	526	99	268	82	43	16	17	-----	1	-----	
	Females..	486	95	254	69	38	11	18	-----	-----	1	
	Unknown	2	-----	1	-----	-----	-----	-----	-----	-----	1	
St. Joseph.....	Total.....	440	340	63	23	9	-----	-----	3	-----	2	
	Males.....	242	186	35	16	3	-----	-----	-----	-----	2	
	Females..	198	154	28	7	6	-----	-----	3	-----	-----	
Tuscola.....	Total.....	427	189	127	56	49	1	-----	3	-----	2	
	Males.....	226	107	66	27	23	-----	-----	1	-----	2	
	Females..	201	82	61	29	26	1	-----	2	-----	-----	
Van Buren.....	Total.....	516	404	32	55	16	2	-----	2	1	4	
	Males.....	272	217	14	27	8	-----	-----	2	1	3	
	Females..	244	187	18	28	8	2	-----	-----	-----	1	
Washtenaw....	Total.....	666	325	190	97	34	7	4	2	1	6	
	Males.....	337	153	108	50	20	1	1	-----	1	3	
	Females..	329	172	82	47	14	6	3	2	-----	3	

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." Except of townships not represented by returns of births, for which see Table XXI. 1 Father "America." 1 "North America." 1 "America."

TABLE VIII.—CONTINUED.—*Births by Counties, Parent-Nativity, and Sex.*

COUNTIES.	SEX.	Children Born, 1874	NATIVITY OF PARENTS.—1874.*								Both Un- kno'n.
			Both Native.	Both Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK.		FATHER UNK.		
							Father.		Mother.		
							Na- tive.	For- eign.	Na- tive.	For- eign.	
Wayne.....	Total.....	4,354	652	1,684	467	209	236	763	51	131	161
	Males.....	2,289	338	887	241	96	124	405	34	80	84
	Females..	2,065	312	793	226	113	112	358	17	51	73
	Unknown	10	2	4	-----	-----	-----	-----	-----	-----	4
Wexford.....	Total.....	60	41	9	5	5	-----	-----	-----	-----	-----
	Males.....	32	20	5	3	4	-----	-----	-----	-----	-----
	Females..	28	21	4	2	1	-----	-----	-----	-----	-----

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown." b 1 Father "America." c 9 "America," 19 Father "America," and 3 Mother "America." d 1 "America," 15 Father "America," and 6 Mother "America." e 4 Mother "America." f 4 Father "America." g Except of townships not represented by returns of births, for which see Table XXI.

In the "Sixth Registration Report"—Vital Statistics of Michigan, 1872—on pages 54-55, the compiler made a quotation from "Population,—Its Law of Increase," by Nathan Allen, M. D., LL. D., of Lowell, Mass., concerning the comparative number of children born of American and of foreign-born parents, as follows: "If we compare the number of children born by the strictly American, with that of the Irish, the Scotch, the English, and the German, the difference is surprising. We find the latter, both in Europe and in this country, have on an average two, if not three times as many as the former, even though both classes may live in the same locality and under the same general influences. Again, if we make the comparison between the present generation in New England and their ancestors living one hundred years ago, we find the number of children at that period averaged two or three times as many as in the same number of families at the present day." The compiler remarked that he did not know upon what evidence these statements rest. Since publishing that, however, the compiler has received from Dr. Allen the following: "As to the birth-rate in New England 50, 100, or 200 years ago, we have no accurate statistics like the Registration Reports of the present day, but no one has taken so much pains to get at the true facts as myself; and the results published have not been disproved nor disputed here to any extent, to my knowledge."

Dr. Allen also states that, in estimating the average number of children to each family, he made use of the town records of four selected towns in Massachusetts, which records contained statistics of the number of families and the number of children born. "Another mode, was genealogical records for several generations. We have many such records published in books and journals."

The opinion of this eminent writer on this subject is valuable, he having devoted many years to the careful study of questions appertaining to social science and the laws of life.

In the Vital Statistics of Michigan 1872, pages 55 to 68, an effort was made to show, from the returns of births in this State, the average ultimate number of children to each woman aged fifteen to forty-five years; and a comparison was attempted with some similar statistics in other States and countries. The evidence in this State is quite meagre, and in last Report the subject was only mentioned, in connection with Exhibits I and J, which supply the basis for an estimate, as explained in the Report for 1872. In order to be able to ascertain with greater certainty the average ultimate number of children to a mother we need to have facts stated in the returns which are not now called for under the law. In Rhode Island the returns show the "Number of the Child, of the Same Mother," and a study of the statistics in that State has yielded results of interest in this connection.

EXHIBIT 1.—*Showing, for the City of Providence (R. I.), the number of Mothers who bore their first, second, third, etc., Child in 1878, the number of Children which each class of these Mothers would probably bear subsequently to 1878; the number they had probably borne previously to 1878.*

CHILDREN BORN PREVIOUSLY TO 1878.		CHILDREN TO BE BORN AFTER 1878.																		Total.
		NUMBER OF THE CHILD.																		
Total.	No. *	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	Total.
-----	1.	529	520	456	357	229	198	122	91	49	38	13	16	5	2			1	1	2,098
520	2.	520	520	456	357	229	198	122	91	49	38	13	16	5	2			1	1	1,578
912	3.	456	456	456	357	229	198	122	91	49	38	13	16	5	2			1	1	1,122
1,071	4.	357	357	357	357	229	198	122	91	49	38	13	16	5	2			1	1	765
916	5.	229	229	229	229	229	198	122	91	49	38	13	16	5	2			1	1	536
990	6.	198	198	198	198	198	198	122	91	49	38	13	16	5	2			1	1	338
732	7.	122	122	122	122	122	122	122	91	49	38	13	16	5	2			1	1	216
637	8.	91	91	91	91	91	91	91	91	49	38	13	16	5	2			1	1	125
392	9.	49	49	49	49	49	49	49	49	49	38	13	16	5	2			1	1	76
342	10.	38	38	38	38	38	38	38	38	38	38	13	16	5	2			1	1	38
130	11.	13	13	13	13	13	13	13	13	13	13	13	16	5	2			1	1	25
176	12.	16	16	16	16	16	16	16	16	16	16	16	16	5	2			1	1	9
60	13.	5	5	5	5	5	5	5	5	5	5	5	5	5	2			1	1	4
26	14.	2	2	2	2	2	2	2	2	2	2	2	2	2	2			1	1	2
	15.																	1	1	2
	16.																	1	1	2
16	17.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	18.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6,937		Total of diagonal line, for children born in 1878=2,627.																		6,937

* Number of the child born in 1878.

Exhibit 1 is a new one, planned to show the ultimate number of children to an average mother, based upon the statistics of the city of Providence (R. I.) for a single year. In Table V., page 9, of the "Twenty-fourth Annual Report upon the Births, Marriages, and Deaths in the City of Providence, for the year 1878," is stated the number of children borne by mothers who bore their first, second, third, etc., child in 1878; and using this as data, the exhibit is made. At the right of the zigzag line crossing the 18 columns are placed the numbers, in their proper columns, showing the number of children to be borne after 1878 (at the rate in 1878) by the mothers who bore children in 1878. These numbers are footed out to the right, and placed in the last column to show the number of children to be borne after 1878 by each class of mothers. The footing of this column shows the total number of children to be borne after 1878 by all the mothers who bore children in 1878 to be 6,937. At the left of the zigzag line are placed the numbers, in their proper columns, showing the number of children borne previously to 1878 (at the rate in 1878) by these same mothers who bore children in 1878. These numbers are footed out to the left, in the total column, to show the number of children borne previously to 1878 by each class of mothers. The footing of this column shows the total number of children borne previously to 1878 by these same mothers who bore children in 1878 to be 6,937; and the footing of the zigzag line through the several columns shows the number of children born in 1878 to be 2,627. By adding together the number to be borne after 1878 (6,937), the number borne previously to 1878 (6,937), and the number borne in 1878 (2,627), we obtain the aggregate number of children which those mothers who bore children in 1878 will probably have borne in a life-time (16,501). The number of twin births among these children born in 1878 was 30; subtracting this number from the number of children born in 1878 (2,627) we obtain 2,597 as the number of mothers who bore children in 1878. If 2,597 mothers will have borne 16,501 children in a life-time, the average ultimate number of children which an average mother will have borne in a life-time will be: $16,501 \div 2,597 = 6.35$.

On pages 58 and 64, Vital Statistics of Michigan 1872, the compiler has expressed the view that the number of children already borne by the mothers in the community, multiplied by two will give the ultimate number of children to such mothers, because they may be supposed to be, on an average, one-half through child bearing. A closer study of the subject reveals a necessity for a slight modification of the statement. This may be stated in the form of a rule, as follows:—

Rule for ascertaining the ultimate number of children to an average mother:

Given statements for an average or representative year,—Multiply by two the number of children already borne by the mothers in a community who bore children during the year; from this product subtract the number of children born in that year, and divide the remainder by the said number of mothers.

The following is a general solution of the problem. Its correctness depends on the validity of the assumptions in the series of propositions numbered "8."

- (1.) $m_1 + m_2 + m_3 + m_4 + \dots =$ the number of mothers who in any given year (or the average annual number who for a period of years) bore, respectively, their first, second, third, etc. child.
- (2.) $e_1 + e_2 + e_3 + e_4 + \dots =$ the number of children the mothers of each of these classes, respectively, may be expected yet to bear.

- (3.) N = the number of children these mothers have already borne.
 (4.) U = the average ultimate number of children to a mother.
 (5.) $M = m_1 + m_2 + m_3 + m_4 + m_5 + \dots$
 (6.) $N = m_1 + 2m_2 + 3m_3 + 4m_4 + 5m_5 + 6m_6 + \dots$
 (7.) $E = e_1 + e_2 + e_3 + e_4 + e_5 + \dots$
 (8.) $\begin{cases} e_1 = m_2 + m_3 + m_4 + m_5 + \dots = M - m_1, \\ e_2 = m_3 + m_4 + m_5 + \dots = M - (m_1 + m_2), \\ e_3 = m_4 + m_5 + m_6 + \dots = M - (m_1 + m_2 + m_3), \\ e_n = m_{n+1} + m_{n+2} + \dots = M - (m_1 + m_2 + \dots + m_n). \end{cases}$
 (9.) $E = M - m_1 + M - (m_1 + m_2) + M - (m_1 + m_2 + m_3) + M - (m_1 + m_2 + m_3 + m_4) + \dots = N - M.$
 (10.) $U = \frac{N + E}{M}$, or $U = \frac{2N - M}{M}.$

By the following statement of the assumptions in equation 8 above, it may perhaps be more readily seen what they are. Assuming the given year, or the average year to be a representative section of the entire body of mothers, it may be supposed,—(1.) That of the m_1 women who in that year bore their first child, m_2 will bear a second child; m_3 , a third; m_4 , a fourth, and so on. (2.) That of the m_2 women who in that year bore their second child, m_3 will bear a third; m_4 , a fourth; m_5 , a fifth; and so on. (3.) That of the m_3 women who in that year bore their third child, m_4 will bear a fourth, and so on. Thus the number of children yet to be borne by the women of any class is equal to the number of women in all the higher classes for that year, or the number of women, bearing children in that year, each of whom has borne more than one woman of the given class. This solution assumes a woman bearing twins to be counted in two successive classes for the given year, the same as if two separate births had occurred to her during the year; when the enumeration is not thus made, a person knowing how it is made can modify the solution accordingly.

More than a single year must be studied in order to reach any general conclusions. In Exhibit 2 the data for twenty years in Rhode Island are tabulated in such manner as to show the expectation, and the average ultimate number of children to a mother of each class, the mothers being classified with reference to the number of children they have already borne. It will be seen that, as an average statement, each woman who bears one child may be expected to bear three other children; also that the average ultimate number of children, to all classes of mothers, is 5.91, which is a little less than is shown in the other exhibit relative to the single year. Because of a little uncertainty as regards twin children, and for reasons stated on page 63, Vital Statistics of Michigan, 1872, it is possible that the results shown in Exhibit 2 may not be the exact and entire truth for the existing population in Rhode Island, even though the statistics embrace the period of twenty years, but they are probably very near the truth.

EXHIBIT 2.—Average Ultimate Number of Children to a Mother, etc.,
(Compiled from Rhode Island Statistics for Twenty years—1857-1876.)

Class (According to Number of Children Borne by each Mother.)	Births in Rhode Island, 20 Years, 1857-76.*	Average Number of Mothers per Year, 20 Years, 1857-76.	Number of Children each of these Mothers has Already Borne.	Children Already Borne by all the Mothers of each Class.	Children to be Borne by the Mothers of each Class.—Total "Expectation."	Total Number of Children to the Mothers of each Class.	Average Ultimate Number of Children for the Mothers of each Class.	Average Number of Children yet to be Borne by one Mother of each Class.—Individual "Expectation."	Successive Differences.
1.....	24,405	1,220.25	1	1,220.25	3,666.20	4,886.45	† 4.00	3.00	-----
2.....	19,845	992.25	2	1,984.50	2,673.95	4,638.45	4.09	2.89	.31
3.....	15,365	793.25	3	2,304.75	1,905.70	4,210.45	5.48	2.48	.21
4.....	11,463	573.15	4	2,292.60	1,332.55	3,625.15	6.32	2.32	.16
5.....	8,542	427.10	5	2,135.50	905.45	3,040.95	7.12	2.12	.20
6.....	6,120	306.00	6	1,836.00	599.45	2,435.45	7.96	1.96	.16
7.....	4,310	215.50	7	1,508.50	383.95	1,892.45	8.78	1.78	.18
8.....	2,908	145.40	8	1,163.20	238.55	1,401.75	9.64	1.04	.14
9.....	1,950	97.50	9	877.50	141.05	1,018.55	10.45	1.45	.19
10.....	1,254	62.70	10	627.00	78.35	705.35	11.25	1.25	.20
11.....	707	35.35	11	388.85	43.00	431.85	12.22	1.22	.03
12.....	423	21.15	12	253.80	21.85	275.65	13.03	1.03	.19
13.....	203	10.15	13	131.95	11.70	143.65	14.15	1.15	-.12
14.....	109	5.45	14	76.30	6.25	82.55	15.15	1.15	0
15.....	57	2.85	15	42.75	3.40	46.15	16.19	1.19	-.04
16.....	28	1.40	16	22.40	2.00	24.40	17.43	1.43	-.24
17.....	22	1.10	17	18.70	0.90	19.60	17.82	1.82	-.39
18.....	6	.30	18	5.40	0.60	6.00	20.00	2.00	-.18
19.....	5	.25	19	4.75	0.35	5.10	20.40	1.40	.60
20.....	3	.15	20	3.00	0.20	3.20	21.33	1.33	.07
21.....	2	.10	21	2.10	0.10	2.20	22.00	1.00	.33
22.....	2	.10	22	2.20	0.00	2.20	22.00	0.00	1.00
	97,729	4,886.45		16,902.00	12,015.55	28,917.55	‡ 5.91		

* "Does not include all the children recorded in the period named, as in every year there are more or less children of whom the 'number of the child' is not given." The number of plurality-births during this period and the method of their enumeration not being known to the compiler of this table, he has assumed all to be single births, or that the mother was counted once for each child. One knowing the facts in the case could easily modify the work to accord with the known facts.

† Average ultimate number to each woman who becomes a mother.

‡ Ultimate number to an average mother, in the existing population.

TWIN CHILDREN.

The order of the years 1870-1874, those having the least number of births of twins first, is as follows: 1871, 298; 1870, 339; 1872, 342; 1874, 408; 1873, 420; this is also the order of the years for total births.

The month of August shows the largest number of births of twins, and January the smallest, as is also the case with total births.

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been born in Michigan during the Year 1874, by Months arranged in order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.*

YEAR AND MONTHS.	NUMBER OF TWIN CHILDREN.					NUMBER OF PAIRS OF TWINS, 1874.						
	Total.	Males.	Fe- males.	Un- kno'n.	Males to 100 Fe- males.	Total.	Males.	Fe- males.	One of Each Sex.	Un- kno'n.	Males to 100 one of each Sex.	Males to 100 Fe- males.
Year, 1874.....	816	427	385	4	111	408	137	116	153	2	90	118
More than the aver- age No. of twins.												
August.....	98	44	54	-----	81	49	15	20	14	-----	107	75
May.....	88	52	36	-----	144	44	16	8	20	-----	80	200
July.....	76	37	37	2	100	38	12	12	13	1	92	100
November.....	70	34	36	-----	94	35	10	11	14	-----	71	91
February.....	68	37	31	-----	119	34	12	9	13	-----	92	133
Average per month..... ^a	68.0	35.5	32.0	.3	111	34.0	11.4	9.6	12.7	.2	90	118
Less than the average number of twins.												
December.....	66	40	26	-----	154	33	14	7	13	-----	117	200
April.....	64	35	29	-----	121	32	11	8	13	-----	85	138
October.....	62	24	38	-----	63	31	4	11	16	-----	25	36
September.....	60	25	35	-----	71	30	8	13	9	-----	89	62
March.....	58	40	18	-----	222	29	16	5	8	-----	200	320
June.....	58	33	23	2	143	29	12	7	9	1	133	171
January.....	46	24	22	-----	109	23	6	5	12	-----	50	130
Unknown.....	2	2	-----	-----	-----	1	1	-----	-----	-----	-----	-----

^a Includes unknown month.

The influence of parent-nativity on the twin birth-rate may be studied in Table X., which shows that the largest proportion of pairs of twins was born of parents who were both native-born; but the twin birth-rate is greatest among the foreign-born. By Exhibit I. it may be seen that the proportion of foreign-born inhabitants in 1870, aged 15 to 45 years, was only 30.25 per cent. of all inhabitants at those ages, and by Table X. it may be seen that the proportion of pairs of twins born of foreign-born parentage was 38.97, thus indicating the larger twin birth-rate among the foreign-born. There is further and direct evidence on this subject in Exhibits 5 and M, on following pages.

TABLE X.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1874.*

NATIVITY OF PARENTS.	PAIRS OF TWINS, 1874.									
	NUMBER.					PER CENT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.				
	Total.	Males.	Females.	One of Each Sex.	Unkno'n.	Total.	Males.	Females.	One of Each Sex.	Unkno'n.
All Nativities.....	408	137	116	153	2	100.00	100.00	100.00	100.00	100.00
Both Native.....	163	61	42	59	1	39.95	44.53	36.21	38.56	50.00
Both Foreign.....	159	48	45	65	1	38.97	35.04	38.79	42.48	50.00
Foreign Father and Native Mother..	48	19	12	17	-----	11.76	13.87	10.34	11.11	-----
Foreign Mother and Native Father..	23	6	9	7	-----	.54	4.38	7.76	4.58	-----
Unknown Mother, Father Native....	6	2	2	2	-----	1.47	1.46	1.73	1.31	-----
Unknown Mother, Father Foreign..	6	-----	4	2	-----	1.47	-----	3.45	1.31	-----
Unknown Father, Mother Native....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unknown Father, Mother Foreign..	1	-----	1	-----	-----	.24	-----	.86	-----	-----
Both Unknown.....	3	1	1	1	-----	.74	.73	.86	.65	-----
One or Both Native.....	239	88	65	85	1	58.58	64.23	56.03	55.56	50.00
One or Both Foreign.....	236	73	71	91	1	57.84	53.29	61.21	59.48	50.00

Exhibit 5 shows, by nativity and color, for each of the years 1871-1874, what proportion of the total number of mothers bore twins. The largest proportion is shown for the year 1874, the next largest for 1872, the next for 1873, and the smallest for 1871. Of the nativity, the largest proportion of twin-bearing mothers is shown for the foreign-born, for each of the years 1871-1874. This is in accordance with the statement on a previous page that the twin birth-rate is greatest among the foreign-born.

The evidence of this Exhibit also goes to show that, in 1874, among the Indians the proportion of twins is greatest, and among the African race the proportion is the same as among the white inhabitants.

EXHIBIT 5.—*By Nativity and by Color of Mothers, the Number and Proportion of Twins Returned as having been Born in Michigan during the Years 1871, 1872, 1873, and 1874.*

NATIVITY AND COLOR OF MOTHERS.	1871.				1872.				1873.				1874.			
	Number of Pairs of Twins.	Whole No. of Mothers, including those of Twins.	Per Cent. of Births of Twins to all Mothers.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twins.	Whole No. of Mothers, including those of Twins.	Per Cent. of Births of Twins to all Mothers.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twins.	Whole No. of Mothers, including those of Twins.	Per Cent. of Births of Twins to all Mothers.	Per Cent. of Births of Twins to all Mothers.	Number of Pairs of Twins.	Whole No. of Mothers, including those of Twins.	Per Cent. of Births of Twins to all Mothers.	Per Cent. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativities.	298	25,688	1.16	1.24	342	27,641	1.24	1.23	421	34,180	1.23	1.33	408	30,789	1.33	1.33
All Native Mothers.	148	12,496	1.10	1.16	180	15,459	1.16	1.13	221	19,546	1.13	1.28	211	16,493	1.28	1.28
All Foreign Mothers.	114	10,141	1.12	1.36	150	11,015	1.36	1.43	196	13,883	1.43	1.49	193	12,210	1.49	1.49
Mothers of Unknown Nativities.	36	2,051	1.76	1.03	12	1,167	1.03	.50	4	893	.50	.73	15	2,077	.73	.73
White.	290	25,363	1.15	1.24	337	27,188	1.24	1.25	417	33,424	1.25	1.33	401	30,238	1.33	1.33
Black.	1	185	.54	2.43	3	121	2.43	2.14	3	140	2.14	.69	1	145	.69	.69
Mulatto.	2	31	6.45	-----	-----	59	-----	-----	-----	103	-----	2.47	2	81	2.47	2.47
Indian.	3	153	2.27	.59	1	169	.59	-----	-----	161	-----	2.16	3	139	2.16	2.16
Unknown.	2	77	2.60	.96	1	104	.96	.28	1	322	.28	.74	1	136	.74	.74
Black and Mulatto.	3	216	1.39	1.67	3	190	1.67	1.23	3	243	1.23	1.33	3	226	1.33	1.33

^a This table differs from all other tables of twins for 1873 by two half pairs added to match the two odd half pairs returned and compiled.

^b 1 "Colored" and 1 "Negro."

Exhibit M contains the same data concerning twins that Exhibit H contains concerning total births, and shows the twin birth-rate, by nativity, for each of the years 1870-1874, based upon the population in 1870 and the births of twins in each of the years 1870-1874. This exhibit furnishes direct evidence of the great twin birth-rate among the foreign-born, and shows that for the five years embodied in the exhibit, the twin birth-rate among the foreign-born is from two to three times as large as among the native-born.

By Table XI. it may be seen that about 52 per cent. of the twins born in Michigan in 1874 were born of parents who were natives of the same State or country.

EXHIBIT M.—Parent-Nativity of Twins born in Michigan during the Years 1870, 1871, 1872, 1873, and 1874,—Relation of Native and Foreign-born Parents to Native and Foreign-born Population.

NATIVITY OF PARENTS OF TWINS, AND NA- TIVITY OF IN- HABITANTS.	NATIVE AND FOREIGN- BORN POPULATION, JUNE 1, 1870. ^a			PARENTS OF TWINS BORN IN 1870, 1871, 1872, 1873, AND 1874.						
	Total.	Males.	Fe- males.	Years of Birth.	NUMBER.			PER CT. OF PARENTS TO POPULATION OF SAME SEX AND NA- TIVITY.		
					Both Par- ents.	Fa- ther.	Moth- er.	Both Par- ents.	Fa- ther.	Moth- er.
All Nativities..... ^b	a 1,158,156	603,635	554,511	1870	620	310	310	.05	.05	.06
Native..... ^c	904,740	463,422	441,318		377	183	194	.04	.04	.04
Foreign..... ^c	253,426	140,233	113,193		243	127	116	.10	.09	.10
All Nativities..... ^b	a 1,147,234	597,768	549,466	1871	524	262	262	.05	.04	.06
Native..... ^c	894,202	457,914	436,288		288	140	148	.03	.03	.03
Foreign..... ^c	253,032	139,854	113,178		236	122	114	.09	.09	.10
All Nativities..... ^b	a 1,169,283	609,946	559,337	1872	654	327	327	.06	.05	.06
Native..... ^c	908,625	463,386	443,230		346	167	179	.04	.03	.04
Foreign..... ^c	260,658	144,560	116,098		308	160	148	.12	.11	.13
All Nativities..... ^b	a 1,179,082	615,228	563,854	1873	830	415	415	.07	.07	.07
Native..... ^c	915,366	468,888	446,478		445	224	221	.06	.06	.06
Foreign..... ^c	263,716	146,340	117,373		385	191	194	.15	.13	.17
All Nativities..... ^b	a 1,180,353	616,109	564,244	1874	784	392	392	.06	.06	.07
Native..... ^c	915,679	469,105	446,574		396	185	211	.04	.04	.06
Foreign..... ^c	264,674	147,004	117,670		388	207	181	.15	.14	.15

^a Population 1870 represented by births in the respective years of births.

^b Excludes parents of unknown nativities.

^c Excluding cases where nativity of either parent is unknown.

TABLE XI.—*Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1874,—distinguishing between Parents Natives of the Same State, and those born in Different States or Countries.*

NATIVITY OF PARENTS.	PAIRS OF TWINS, 1874.									
	NUMBER.					PER CENT. OF EACH PARENT-NATIVITY TO TOTAL OF ALL NATIVITIES.				
	Total.	Males.	Females.	One of Each Sex.	Un-kno'n.	Total.	Males.	Females.	One of Each Sex.	Un-kno'n.
All Nativities.....	408	137	116	153	2	100.00	100.00	100.00	100.00	100.00
Same American State or Foreign Country.....	a 212	68	a 59	84	1	51.96	49.64	50.86	51.90	50.00
Different American States or Foreign Countries.....	110	41	28	40	1	26.96	29.92	24.14	26.14	50.00
Foreign Father and Native Mother..	48	19	12	17	-----	11.76	13.87	10.34	11.11	-----
Foreign Mother and Native Father..	22	6	9	7	-----	5.39	4.38	7.76	4.58	-----
Unknown Mother, Father Native....	6	2	2	2	-----	1.47	1.46	1.72	1.81	-----
Unknown Mother, Father Foreign..	6	-----	4	2	-----	1.47	-----	3.45	1.81	-----
Unknown Father, Mother Native....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Unknown Father, Mother Foreign..	1	-----	1	-----	-----	.25	-----	.86	-----	-----
Both Unknown.....	3	1	1	1	-----	.74	.73	.86	.65	-----
Different States or Countries.....b	180	66	49	64	1	44.12	48.18	42.24	41.83	50.00

a Includes 2 pairs returned "Europe."

b Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country."

TABLE XII.—*Exhibiting for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1874. Nativity Stated by Pairs of Twins.*

STATE AND COUNTIES.		SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS.—1874. ^a											
					NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
					Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.		
												Native.	Foreign.	Native.	Foreign.	
State	Total	816	408	82	81	128	29	2	48	22	6	6	1	3		
	Males	427	137	b 28	c 33	d 40	d 8		e 19	6	f 2			1		
	Females	385	116	g 20	22	h 37	6	i 2	j 12	9	2	4	1	1		
	One of each		153	k 34	l 25	m 50	n 15		17	7	2	2		1		
	Unknown	4	2		1	1										
Alcona	Total	2	1				1									
	Males	1														
	Females	1														
	One of each		1				1									
Allegan	Total	30	15	5	2	4	1		2	1						
	Males	19	6	2	1	1	1		1							
	Females	11	2	1						1						
	One of each		7	2	1	3			1							
Antrim	Total	8	4	1		2			1							
	Males	3														
	Females	5	1						1							
	One of each		3	o 1		2										
Barry	Total	16	8	1	3	1	1		1	1						
	Males	9	2		1		d 1									
	Females	7	1		1											
	One of each		5	1	f 1	1			1	1						

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b 3 pairs still-born, 1 male still-born, and 1 pair male and unknown sex.

^c 1 pair mulatto.

^d 1 male still-born.

^e 1 pair still-born, and 1 male still-born.

^f 1 pair still-born.

^g 1 pair mulatto, 1 pair black, and 1 female still-born.

^h 1 female still-born.

ⁱ 2 pairs "Europe."

^j 1 pair "Light."

^k 2 pairs Indian, 2 pairs still-born, 1 male --

^l 1 pair still-born, 2 males still-born, and

^m 2 pairs still-born, 1 male still-born, --

ⁿ 1 male still-born, and 1 female still-

^o 1 pair Indian.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

		NATIVITY OF PARENTS OF TWINS.—1874.*													
COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Counties.	Unknown Country.			Father.		Mother.		
											Native.	Foreign.	Native.	Foreign.	
Bay	Total	14	7		2	4				1					
	Males	6	2		1					1					
	Females	8	3		1	2									
	One of each		2			2									
Benzie	Males	2	1			1									
Berrien	Total	18	9		4	3			1	1					
	Males	10	2		1	1									
	Females	8	1			1									
	One of each		6		3	1			1	1					
Branch	Total	8	4	1	2	1									
	Males	6	2		2										
	Females	2													
	One of each		2	1		1									
Calhoun	Total	8	4	1	1	2									
	Males	2	1		1										
	Females	6	3	1		2									
Cass	Total	6	3	1	2										
	Males	2													
	Females	4	1		1										
	One of each		2	1	1										
Clinton	Total	18	9	4		2			3						
	Males	13	5	2		1			2						
	Females	5	1						1						
	One of each		3	2		1									
Eaton	Total	24	12	2	10										
	Males	14	5		5										
	Females	10	3	1	2										
	One of each		4	1	3										

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
 1 male still-born.
 1 pair black.
 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

		NATIVITY OF PARENTS OF TWINS.—1874.*													
COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.		
											Native.	Foreign.	Native.	Foreign.	
Genesee.....	Total.....	8	4	1	2	1									
	Males.....	5	2		2										
	Females.....	3	1			1									
	One of each.....		1	1											
Gr. Traverse.....	Total.....	4	2		1	1									
	Males.....	3	1			1									
	Females.....	1													
	One of each.....		1												
Gratiot.....	Total.....	14	7	4	3										
	Males.....	10	4	3	1										
	Females.....	4	1		1										
	One of each.....		2	1	1										
Hillsdale.....	Total.....	10	5		2				1	2					
	Males.....	5	1		1										
	Females.....	5	1		1										
	One of each.....		3						1	2					
Houghton.....	Total.....	14	7	1		5	1								
	Males.....	6	1			1									
	Females.....	8	2	1		1									
	One of each.....		4			3	1								
Huron.....	Total.....	10	5	2		2	1								
	Males.....	3													
	Females.....	7	2	1		1									
	One of each.....		3	1		1	1								
Ingham.....	Total.....	16	8	2	1	3	2								
	Males.....	7	3		1	1	1								
	Females.....	9	4	2		2									
	One of each.....		1				1								

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

^c 1 male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS.—1874.*												
				NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.	
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.			
											Native.	Foreign.	Native.	Foreign.		
Ionia	Total	8	4	1	2				1							
	Males	2														
	Females	6	2		1				1							
	One of each		2	1	1											
Iosco	Total	2	1						1							
	Males	1														
	Females	1														
	One of each		1						1							
Isabella	Total	4	2		1	1										
	Males	3	1		1											
	Females	1														
	One of each		1			1										
Jackson	Total	8	4	2			2									
	Males	5	1	1												
	Females	3														
	One of each		3	1			2									
Kalamazoo	Total	26	13	5	3	3	1		1							
	Males	14	4	3		1										
	Females	12	3	1		2										
	One of each		6	1	3		1		1							
Kalkaska	Total	2	1						1							
	Males	1														
	Females	1														
	One of each		1						1							
Kent	Total	30	15	1	5	5			3	1						
	Males	13	4		1	1			2							
	Females	17	6		3	2				1						
	One of each		5	1	1	2			1							

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

b 1 pair "Light."

c 1 pair still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS.—1874.*										Both Unknown.	
				NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.		
											Native.	Foreign.	Native.		Foreign.
Keweenaw.....	Total.....	2	1				1								
	Males.....	1													
	Females.....	1													
	One of each.....		1				1								
Lake.....	Total.....	2	1												1
	Males.....	1													
	Females.....	1													
	One of each.....		1												1
Lapeer.....	Total.....	18	9	2	3	2		2							
	Males.....	14	6	2	1	1		2							
	Females.....	4	1		1										
	One of each.....		2		1	1									
Lenawee.....	Total.....	22	11	3	2	3		2	1						
	Males.....	6	1			1									
	Females.....	16	6	1	2	2			1						
	One of each.....		4	2				2							
Livingston.....	Total.....	16	8	3	1	2		1	1						
	Males.....	9	3	1	1				1						
	Females.....	7	2	1				1							
	One of each.....		3	1		2									
Macomb.....	Total.....	18	9	1	1	6	1								
	Males.....	12	4			4									
	Females.....	6	1			1									
	One of each.....		4	1	1	1	1								
Manistee.....	Total.....	6	3			3									
	Males.....	1													
	Females.....	5	2			2									
	One of each.....		1			1									

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "American" —
 b 1 male still-born. c 1 f

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS.—1874.*											
				NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.		
											Native.	Foreign.	Native.	Foreign.	
Marquette.....	Total.....	14	7	1	5			1							
	Males.....	10	4	1	2			1							
	Females.....	4	1		1										
	One of each.....		2		2										
Mecosta.....	Total.....	18	9	2	3	1		1	2						
	Males.....	8	2	1					1						
	Females.....	10	3	2					1						
	One of each.....		4	2	1			1							
Midland.....	Total.....	6	3					3							
	Males.....	2	1					1							
	Females.....	4	2					2							
Monroe.....	Total.....	20	10	6	2	1			1						
	Males.....	10	2	2											
	Females.....	10	2	1					1						
	One of each.....		6	4	1	1									
Montcalm.....	Total.....	12	6	3	2	1									
	Males.....	7	3	3											
	Females.....	3	1			1									
	One of each.....		1	1											
	Unknown.....	2	1	1											
Muskegon.....	Total.....	6	3	1		1			1						
	Males.....	3	1	1											
	Females.....	3	1			1									
	One of each.....		1						1						
Newaygo.....	Females.....	2	1					1							
Oakland.....	Total.....	24	12	2	1	4	1		4						
	Males.....	16	6	1	2			3							
	Females.....	8	2	1		1									
	One of each.....		4	1	2			1							

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

^b 1 male and 1 unknown sex. ^c 1 pair still-born. ^d 1 female still-born. ^e 1 pair color unknown. ^f 1 male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS OF TWINS.—1874.*											
				NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Father.		Mother.		
											Native.	Foreign.	Native.	Foreign.	
Oceana.....	Total.....	4	2			1	1								
	Males.....	3	1			1									
	Females.....	1													
	One of each.....		1				1								
Ontonagon.....	Total.....	6	3		1	2									
	Males.....	3													
	Females.....	3													
	One of each.....		3		1	b 2									
Osceola.....	Females.....	2	1			1									
Ottawa.....	Total.....	22	11	5	2	1		1	2						
	Males.....	8	2	2											
	Females.....	14	5	2	2	1									
	One of each.....		4	1				1	2						
Saginaw.....	Total.....	20	10	3	1	4		2							
	Males.....	11	3		1	2									
	Females.....	9	2			1		1							
	One of each.....		5	c 3		c 1		1							
Sanilac.....	Total.....	18	9	1		5	2		1						
	Males.....	12	4			2	1		1						
	Females.....	6	1			1									
	One of each.....		4	d 1		2	1								
Schoolcraft.....	Females.....	2	1			1									
Shiawassee.....	Total.....	12	6	2	1	1	1	1							
	Males.....	11	5	b 1	1	1	1	1							
	Females.....	1													
	One of each.....		1	1											
St. Clair.....	Total.....	34	17	3	1	7	3	2		1					
	Males.....	17	5	2	1	1		1							
	Females.....	17	5	1		2		1		1					
	One of each.....		7			4	3								

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."
 1 pair still-born. c 1 pair Indian. d 1 male still-born.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

		NATIVITY OF PARENTS OF TWINS.—1874.*													
COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVE.		FOREIGN.			Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	MOTHER UNK.		FATHER UNK.		Both Unknown.
				Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Unknown Country.			Native.	Foreign.	Native.	Foreign.	
St. Joseph.....	Total.....	6	3	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
	Males.....	4	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	.....	2	b 1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Tuscola.....	Total.....	10	5	2	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....
	Males.....	7	3	.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....
	Females.....	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Van Buren.....	Total.....	18	9	2	4	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
	Males.....	8	4	1	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Females.....	10	5	1	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	One of each.....	.....	4	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washtenaw.....	Total.....	8	4	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males.....	5	2	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	3	1	c 1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	One of each.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wayne.....	Total.....	156	78	4	6	33	8	2	10	4	4	5	.....	1	1
	Males.....	78	26	2	f 2	d 13	2	.....	4	1	b 2	.....	.....	.....	.....
	Females.....	81	30	1	2	8	5	e 2	3	2	2	3	.....	1	1
	One of each.....	.....	21	1	2	11	c 1	.....	3	b 1	.....	2	.....	.....	.....
	Unknown.....	2	1	.....	.....	b 1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wexford.....	Females.....	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "unknown."

b 1 pair still-born. c 1 female still-born. d 1 male still-born. e 2 pairs "Europe." f 1 pair mulatto.

TABLE XIII.—*Occupations of Fathers of Twins born in Michigan during the Year 1874, according to the Returns.*

OCCUPATIONS.	No. of Each.	OCCUPATIONS.	No. of Each.
OF ALL OCCUPATIONS.....	408	Market-man.....	1
Bakers.....	2	Mason.....	1
Barber.....	1	Mechanics.....	3
Blacksmiths.....	6	Merchants.....	4
Book Agent.....	1	Miller.....	1
Boot and Shoemaker.....	1	Miners.....	6
Brick-maker.....	1	Mining Captain.....	1
Builder.....	1	Moulder.....	1
Butcher.....	1	Organ Tuner.....	1
Butcher, Foreman.....	1	Overseer in Rock House.....	1
Carpenters.....	17	Painters.....	3
Carpenter and Joiner.....	1	Painter and Glass-stainer.....	1
Cigar-makers.....	2	Patent Manufacturer.....	1
Clerks.....	6	Peddlers.....	2
Contractor.....	1	Physicians.....	3
Cooper.....	1	Policeman.....	1
Day Laborer.....	1	Printers.....	2
Dentist.....	1	Real Estate Dealer.....	1
Engineers.....	3	R. R. Agent.....	1
Expressman.....	1	R. R. Laborer.....	1
Farmers.....	208	R. R. Superintendent.....	1
Farm Laborer.....	1	Sailors.....	3
Fishermen.....	2	Saloon-keepers.....	2
Grocers.....	4	Sash and Door Manufacturer.....	1
Harness-maker.....	1	Sawyers.....	3
Helper.....	1	Sewing Machine Agent.....	1
Hotel Clerk.....	1	Ship-carpenter.....	1
Hotel-keeper.....	1	Shoemakers.....	4
Iron Puddler.....	1	Soda-water Manufacturer.....	1
Joiner.....	1	Soldier.....	1
Laborers.....	59	Stone-mason.....	1
Lamp-lighter.....	1	Tailors.....	4
Light-house Keeper.....	1	Teacher.....	1
Lumber Dealer.....	1	Teamster.....	1
Lumberman.....	1	Tinsmiths.....	2
Machinists.....	2	Unknown.....	6
Manufacturer.....	1	Wagon-makers.....	3

There were less triplets reported for 1874 than for any of the previous years 1870-1874, the number of triplet births for each year being: 1874, 2; 1873, 3; 1872, 5; 1871, 3; 1870, 4. Of the 6 triplet children in 1874, 2 were males, and 4 were females; of the 9 in 1873, 7 were males, and 2 were females; of the 15 in 1872, 3 were males, 9 were females, and of 3 the sex was not reported; of the 9 in 1871, 4 were males, and 5 were females; of the 12 in 1870, 8 were males, and 4 were females. A majority of the fathers of triplets were men whose occupation necessitates manual labor.

TABLE XIX.—*Exhibiting the Details Concerning Triplet Children Born in Michigan during the Year 1874.*

COUNTIES.	TRIPLET CHILDREN, 1874.				PARENTS.		
	Month of Birth.	Color.	SEX.		Birth-place of Father.	Birth-place of Mother.	Occupat'n of Father.
			Males.	Fe-males.			
Bay.....	April.	White.	1	2	Canada.	Canada.	Saloon.
Van Buren.....	January.	White.	1	2	Ohio.	Mich.	Farmer.

STILL-BIRTHS.

The number of still-births compiled for 1874 is considerably larger than for any previous year; but for the first time the still-births in the returns of births for 1874 have been made to compare with those in the returns of deaths, as they should, which has increased the number of still-births tabulated. This fact should be borne in mind in attempting any comparison of the number of still-births shown for the different years in Exhibit 6.

Exhibit 7 is valuable in showing the influence of parent-nativity upon the births of still-born children. The evidence in this exhibit is that, as a rule, the foreign-born inhabitants produce the largest percentage of still-born children; and among the different races in 1874, the percentage of still-born children reported is greatest among the African race, and smallest among the Indians. The correction mentioned above does not vitiate the comparison of the different races, by years.

In each of the years 1870-1874 there is a large excess of males among the still-born children, the number of males to 100 females being as follows: 1870, 162.50; 1871, 162.96; 1872, 122.22; 1873, 180.70; 1874, 149.14.

EXHIBIT 6.—*The Relation of Still-born to all Children Returned as having been Born in Michigan during the Several Years 1868 to 1874, inclusive, and of the Mothers of Still-born to all Mothers Returned as having Borne Children during each of the Years 1871, 1872, 1873, and 1874.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND STILL-BIRTHS.						
	1868.	1869.	1870.	1871.	1872.	1873.	1874.
All Children born.....	19,171	27,093	26,603	25,992	27,993	34,608	31,151
Still-born Children.....	* 46	* 141	* 74	* 88	* 301	* 348	464
Per Cent. of Still-born to Total.....	.23	.52	.28	.34	1.06	1.01	1.49
All Mothers.....				25,698	27,641	34,180	30,739
Mothers of Still-born Children.....				* 86	* 293	* 263	454
Per Cent. of Mothers of Still-born Children to all Mothers.....				.33	1.06	.97	1.48

* As per returns of births.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during each of the Years 1871, 1872, 1873, and 1874, according to the Returns.

NATIVITY AND COLOR OF MOTHERS.	1871.			1872.			1873.			1874.		
	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Ct. of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Ct. of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Ct. of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Ct. of Mothers of Still-births to all Mothers.
Mothers of all colors and all nativities.....	86	25,688	.33	293	27,641	1.06	833	34,180	.97	454	30,789	1.48
All native mothers.....	40	13,496	.30	146	15,459	.94	193	19,546	.98	214	16,452	1.30
All foreign mothers.....	34	10,141	.34	130	11,015	1.09	135	13,832	.98	176	12,210	1.44
Mothers of unknown nativities.....	12	2,051	.59	27	1,167	2.31	6	802	.75	64	2,077	3.08
White.....	83	25,263	.33	286	27,188	1.05	817	33,434	.96	438	30,238	1.45
Black.....	1	185	.54	2	121	1.65	2	140	1.43	3	145	2.07
Mulatto.....	1	81	3.23	.....	69	.....	3	103	2.91	1	81	1.23
Indian.....	.....	132	.....	.....	169	.....	.....	161	.....	2	139	1.44
Unknown.....	1	77	1.30	5	104	4.81	11	352	3.15	10	136	7.35
Black and Mulatto.....	2	216	.93	2	180	1.11	5	243	2.06	4	226	1.77

* 1 "African."

TABLE XIV.—*Exhibiting, by Sex, the Parent-Nativity, and, by Sex and Month, the Number of Still-births Returned as having Occurred in Michigan during the Year 1874.*

SEX.	Year, 1874.	MONTHS, 1874.												NATIVITY OF PARENTS OF STILL-BIRTHS, 1874.																
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	PARENTS BORN IN MICHIGAN.	NATIVE.			FOREIGN.				Foreign Father and Na- tive Mother.		Foreign Mother and Na- tive Father.		MOTHER UNK.		FATHER UNK.		Both Unknown.
		Total.	Same State.	Different States.	Total.	Same Country.	Different Coun- tries.	Unknown.	Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	Native.	Foreign.	Native.		Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.	Foreign.	Native.		
Total.....	a 464	25	30	31	26	47	35	49	53	40	41	33	53	1	96	114	172	99	73	147	117	26	4	48	29	11	6	1	2	48
Males.....	b 261	11	13	16	17	24	24	32	33	20	23	19	29	.....	59	70	102	66	36	81	65	15	c 1	30	19	7	2	.....	1	19
Females.....	d 175	13	13	12	9	21	11	13	18	18	14	11	21	1	31	40	63	31	32	56	43	10	e 3	15	9	3	2	1	1	25
Unknown.....	e 28	1	4	3	.....	2	.....	4	2	2	4	3	3	.....	6	4	7	2	5	10	9	1	.....	3	1	1	2	.....	.....	4

a 5 pairs twins one of each sex, 4 pairs male twins, 1 pair sex unknown.
 b 2 illegitimate, 10 twin children, 1 Black, 1 "Colored," 1 Mulatto, 2 White and Indian, 1 color unknown.
 c 4 Europeans.
 d 4 twin children, 1 Black, 1 "Light," 1 color unknown.
 e 1 illegitimate, 3 color unknown.

TABLE XV.—*Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1874, of Parents who were Natives of the same, and of Different States or Countries.*

NATIVITY OF PARENTS.	STILL-BORN CHILDREN, 1874.							
	NUMBER.				PER CT. OF EACH PARENT NATIVITY TO TOTAL OF ALL NATIVITIES.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
ALL NATIVITIES.....	464	261	175	28	100.00	100.00	100.00	100.00
Same American State or Foreign Country.....	220	133	77	11	47.41	50.57	44.00	39.29
Different American States or Foreign Countries.....	99	51	42	6	21.34	19.54	24.00	21.43
Foreign Father and Native Mother....	43	30	15	3	10.34	11.49	8.57	10.71
Foreign Mother and Native Father....	29	19	9	1	6.25	7.28	5.14	3.57
Unknown Mother, Father Native....	11	7	3	1	2.37	2.68	1.71	3.57
Unknown Mother, Father Foreign....	6	3	2	2	1.29	.77	1.14	7.14
Unknown Father, Mother Native....	1	-----	1	-----	.22	-----	.57	-----
Unknown Father, Mother Foreign....	2	1	1	-----	.43	.38	.57	-----
Both Unknown.....	43	19	25	4	10.34	7.28	14.29	14.29
Different States or Countries.....	176	100	68	10	37.85	38.17	37.71	35.71
Native.....	172	102	63	7	36.99	38.93	36.00	25.00
Foreign.....	147	81	56	10	31.61	30.93	32.00	35.71

Includes 1 male and 3 females unknown country, returned "Europe."

Compare with same statement for twins in Table XL, page 49.

ILLEGITIMATE CHILDREN.

The number of illegitimate children returned as having been born in Michigan in 1874 is larger than for any previous year except 1873. The number for each of the years 1868-1874, and the per cent. to all children born, are shown in Exhibit 8. The largest number and per cent. of illegitimate children are shown for 1873, the smallest number appears for 1868, and the smallest per cent. for 1869.

Exhibit 9 contains data of the parent-nativity and color of illegitimate children returned for the years 1871, 1872, 1873, and 1874. The per cent. of mothers of illegitimates to all mothers is greatest among the foreign-born mothers, for each year except 1872, when the per cent. is slightly greater among the native-born; but in that year (1872) the per cent. of the unknown nativities is excessively large, which may account for the exception in 1872 to what seems to be a rule.

Among the different races, the per cent. of mothers of illegitimate children to all mothers, for each of the years 1871-1874, is greatest among the Indians, and least among the white inhabitants, the per cent. among the latter—

very small. In 1874, the per cent. among the Indians was 6.47, against only .72 per cent. among the white inhabitants.

In every year except 1872, there was an excess of males among the illegitimate children, but not so large an excess as among the still-born children.

Table XVI. shows the number by month and by parent-nativity, by sex, the largest number appearing for the month of December, the smallest for August.

Table XVII. is a valuable one, though it would be more valuable if the census was nearer the time of the births. It shows, by sex, the illegitimate birth-rate among different races, for the year 1874. The largest per cent. of illegitimate births to population appears for the Indians, the smallest for the white inhabitants. This is true of each of the years 1871, 1872, 1873, and 1874,—the only years for which the statement is made.

By Table XVIII. it may be seen that the nativity of more than four-fifths of the fathers of illegitimate children in 1874, was, as might be expected, not returned,—about 17 out of 100 being enumerated.

EXHIBIT 8.—*The Relation of the Illegitimate Children to All Children Returned as having been born during the several Years 1868 to 1874, inclusive, and of Mothers of Illegimates to All Mothers Returned as having Borne Children in Michigan, during each of the Years 1871, 1872, 1873, and 1874.*

CHILDREN AND MOTHERS.	TOTAL BIRTHS AND ILLEGITIMATES.						
	1868.	1869.	1870.	1871.	1872.	1873.	1874.
All Children born.....	19,171	27,093	26,663	25,992	27,993	24,608	31,151
Illegitimate Children.....	104	137	155	183	199	316	236
Per Ct. of Illegitimate to total.....	.54	.51	.58	.70	.71	.91	.76
All Mothers.....				25,688	27,641	24,180	30,739
Mothers of Illegitimate Children.....				181	195	314	236
Per Ct. of Mothers of Illegimates to all Mothers.....				.70	.71	.92	.77

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during each of the Years 1871, 1872, 1873, and 1874.

	1871.			1872.			1873.			1874.		
	Mothers having illegitimate children.	No. of Mothers, including those of illegitimate children.	Per Cent. of Mothers, including those of illegitimate children.	Mothers having illegitimate children.	No. of Mothers, including those of illegitimate children.	Per Cent. of Mothers, including those of illegitimate children.	Mothers having illegitimate children.	No. of Mothers, including those of illegitimate children.	Per Cent. of Mothers, including those of illegitimate children.	Mothers having illegitimate children.	No. of Mothers, including those of illegitimate children.	Per Cent. of Mothers, including those of illegitimate children.
NATIVITY AND COLOR OF MOTHERS.												
Mothers of all colors and all natives.....	181	25,688	.70	195	27,641	.71	314	34,180	.92	236	30,739	.77
All native Mothers.....	75	13,496	.56	90	15,459	.64	128	19,546	.65	110	16,452	.67
All foreign Mothers.....	73	10,141	.73	64	11,915	.58	93	13,832	.67	93	12,910	.76
Mothers of unknown natives.....	33	2,051	1.61	32	1,167	2.74	93	802	1.16	33	2,077	1.59
White	152	25,263	.60	176	27,188	.65	277	33,434	.82	217	30,228	.72
Black	a 9	185	4.86	c 2	121	1.65	e 7	140	5.00	7	145	4.83
Mulatto	2	31	6.45	6	59	10.17	5	103	4.42	3	81	3.70
Red	b 8	122	6.06	d 9	169	5.33	11	161	6.83	2 9	139	6.47
Brown	10	77	12.99	2	104	1.92	14	352	3.98	.....	136	.....
Indian and Mulatto	11	216	5.09	8	180	4.44	12	943	4.94	10	226	4.43

"African," 4 "Colored," 1 "Negro," b 1 "X White," 2 "Y White," c 1 "Colored," d 2 "Copper-colored," e 1 "Half-breed," f 1 "Black and Indian," g 1 "colored," h 1 "Half Indian," and 1 "White and Indian." i 4 "White and Indian."

BIRTHS OF ILLEGITIMATE CHILDREN.

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TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1874, According to the Returns.*

SEX.	Year, 1874.	MONTHS, 1874.												NATIVITY OF MOTHERS.						NATIVITY OF FATHERS.																							
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	NATIVE.			FOREIGN.			NATIVE.			FOREIGN.																				
														Total.	Born in Mich-igan.	Born in Other States.	Total.	Born in Can-ada.	Born in Other Countries.	Unknown.	Total.	Born in Mich-igan.	Born in Other States.	Total.	Born in Can-ada.	Born in Other Countries.	Unknown.																
Total.....	236	18	17	17	18	21	25	15	12	21	17	22	32	1	110	67	43	93	43	50	33	31	18	13	11	4	7	194	Unknown.														
Males.....	127	8	7	10	13	13	14	9	7	9	8	10	18	1	60	36	24	53	22	31	14	22	14	8	6	2	4	99															
Females.....	108	10	10	6	5	8	11	6	5	12	9	12	14	---	50	31	19	40	21	19	18	9	4	5	2	3	3	94															
Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	1														
		a 2 Still-born, 5 Black, 1 Mulatto, 2 Indian, 3 White and Indian.												b 1 Still-born.						c 1 pair Twins.						d 5 United States.						e 3 "America."						f 3 Black, 1 Mulatto, 3 Indian, 1 White and Indian.					
		a 1 United States.												b 4 "America."																													

a 2 Still-born, 5 Black, 1 Mulatto, 2 Indian, 3 White and Indian. b 1 Still-born. c 4 pair Twins. d 5 United States. e 3 "America." f 2 Black, 3 Mulatto, 3 Indian, 1 White and Indian. g 1 United States. h 4 "America."

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE XVII.—*Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1874, the Per Cent. of such Children to inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.*

COLOR OR RACE.	SEX.	Population, June 1, 1870, Represented by Births in 1874.	Total Ille- gitimate Births, 1874.	Per Cent. of Births to Popula- tion.	Per Cent. of each Sex to Total of both Sexes.	Number of Inhabit- ants to one Illegiti- mate Child of the same Color.
All Colors.....	Total	1,180,353	236	.02	.....	5,001
	Males	616,109	127	.02	54.04	4,851
	Females	564,244	108	.02	45.96	5,224
	Unknown .....	.....	1	.....	.....	.....
White.....	Total	1,163,968	217	.02	.....	5,384
	Males	607,601	116	.02	53.70	5,228
	Females	556,365	100	.02	46.30	5,564
	Unknown .....	.....	1	.....	.....	.....
Black	Total	5,521	7	.13	.....	7,887
	Males	3,047	5	.16	71.43	6,094
	Females	2,474	2	.08	28.57	1,237
Mulatto.....	Total	6,215	8	.06	.....	2,072
	Males	3,137	1	.03	33.33	3,137
	Females	3,078	2	.06	66.67	1,539
Indian	Total	4,651	9	.19	.....	5,168
	Males	2,324	^a 5	.23	55.56	4,648
	Females	2,327	^b 4	.17	44.44	5,817
Black and Mulatto.....	Total	11,736	10	.09	.....	1,174
	Males	6,184	6	.10	60.00	1,081
	Females	5,552	4	.07	40.00	1,398

^a Includes 3 White and Indian.

^b Includes 1 White and Indian.

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents in Michigan during the Year 1874.*

NATIVITY OF PARENTS.		ILLEGITIMATE CHILDREN, 1874.								
		No. of Males to 100 Fe- males.	NUMBER.				PER CENT. OF TOTAL.			
			Total.	Males.	Fe- males.	Un- kno'n.	Total.	Males.	Fe- males.	Un- kno'n.
All Nativities.....		118	* 238	127	108	1	100.00	100.00	100.00	100.00
Mothers.....	{ Native	120	110	60	50	-----	46.61	47.24	46.30	-----
	{ Foreign	133	93	53	40	-----	39.41	41.73	37.04	-----
	{ Unknown...	78	33	14	18	1	13.98	11.02	16.66	100.00
Fathers.....	{ Native	244	31	22	9	-----	13.14	17.33	8.33	-----
	{ Foreign	120	11	6	5	-----	4.66	4.72	4.63	-----
	{ Unknown ..	105	194	99	94	1	82.20	77.95	87.04	100.00

* There is one pair of illegitimate twins. The number of fathers and of mothers is 235.

TABLE XX.—*Exhibiting, for the State and Counties, the Number of Females aged 16 to 45 in Michigan, June 1, 1870, the same represented by Returns of Births in 1874, the Number of such Females to one Child, to one Illegitimate Child, and to one Pair of Twins Reported as having been Born in Michigan during the Year 1874; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1874.*

STATE AND COUNTIES.	Female Popula- tion Aged 16 to 45, June 1, 1870. ^a	Female Popula- tion Aged 16 to 45, June 1, 1870, Represent- ed by Births in 1874.	Per Ct. of Births in 1874 to Fe- males Aged 16 to 45, June 1, 1870. ^b	No. of Females Aged 16 to 45, June 1, 1870, to one Ille- gitimate Child Born in 1874. ^b	No. of Females Aged 16 to 45, June 1, 1870, to one Ille- gitimate Child Born in 1874. ^b	No. of ^c Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874. ^b	Twin Chil- dren,— No. of Males to 100 Fe- males.	No. of Illegit- imate Children Born in 1874.	No. of Still- births in 1874.
STATE.....	254,264	253,616	12.28	8.14	1,075	623	111	236	464
Alcona.....	c 157	157	21.02	4.76	157	157	100	1	1
Allegan.....	6,681	6,681	10.43	9.59	6,681	445	173	1	11
Alpena.....	548	524	20.61	4.85	-----	d	d	-----	1
Antrim.....	387	387	26.87	3.72	-----	97	60	-----	5
Baraga.....	-----	-----	-----	-----	-----	d	d	-----	-----
Barry.....	4,722	4,722	11.05	9.05	4,722	590	129	1	9
Bay.....	3,306	3,306	29.04	3.44	472	472	75	7	9
Benzie.....	452	452	16.81	5.95	452	452	e	1	2
Berrien.....	7,591	7,591	7.13	14.03	7,591	843	125	1	7
Branch.....	5,941	5,941	8.38	11.93	1,485	1,485	300	4	9
Calhoun.....	8,377	8,377	6.57	15.23	1,075	2,094	33	5	4
Cass.....	4,415	4,415	7.29	13.71	1,472	1,471	50	3	1
Charlevoix.....	318	318	20.13	4.97	-----	d	d	-----	1
Cheboygan.....	402	402	26.12	3.83	402	d	d	1	10
Chippewa.....	330	283	25.80	3.88	94	d	d	3	1
Clare.....	37	37	108.11	.93	-----	d	d	-----	2
Clinton.....	4,860	4,860	10.60	9.44	2,430	540	260	2	14
Delta.....	423	410	32.44	3.08	410	d	d	1	2
Eaton.....	5,524	5,524	9.78	10.23	5,524	460	140	1	6
Emmet.....	247	247	15.79	6.33	62	d	d	4	-----
Genesee.....	7,554	7,554	7.47	13.39	2,518	1,888	167	3	9
Gladwin.....	-----	-----	-----	-----	-----	d	d	-----	-----
Grand Traverse.....	881	769	12.61	7.93	769	384	300	1	-----
Gratiot.....	2,373	2,373	15.84	6.31	1,187	339	250	2	5

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population of counties and townships represented by births in 1874 is used in computing statements in this column.

^c Includes population of unorganized county of Oscoda.

^d No twin births returned.

^e No females.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population Aged 16 to 45, June 1, 1870, a	Female Population Aged 16 to 45, June 1, 1870, Represented by Births in 1874.	Per Ct. of Births in 1874 to Females Aged 16 to 45, June 1, 1870, b	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1874. b	No. of Females Aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1874. b	No. of Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874. b	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1874.	No. of Still-births in 1874.
Hillsdale.....	7,016	7,016	6.33	15.80	7,016	1,403	100	1	1
Houghton.....	2,514	2,514	31.74	3.15	1,257	359	75	2	11
Huron.....	1,593	1,532	28.07	3.56	1,532	306	43	1	5
Ingham.....	5,606	5,606	10.40	9.62	2,803	701	78	2	7
Ionia.....	6,087	6,087	9.77	10.23	2,029	1,522	33	3	7
Iosco.....	c 640	640	12.50	8.00	-----	640	100	-----	-----
Isabella.....	809	636	19.34	5.17	636	318	300	1	1
Jackson.....	8,025	8,025	8.88	11.26	8,025	2,006	167	-----	9
Kalamazoo.....	7,304	7,304	8.65	11.56	1,826	562	117	4	11
Kalkaska.....	71	71	91.55	1.09	36	71	100	2	1
Kent.....	11,107	11,107	13.76	7.27	1,234	740	76	9	30
Keweenaw.....	727	727	29.44	3.40	727	727	100	1	6
Lake.....	108	108	54.63	1.83	108	108	100	1	2
Lapeer.....	4,456	4,456	11.02	9.08	743	495	350	6	3
Leelanaw.....	885	885	12.66	7.90	885	d	d	1	2
Lenawee.....	10,458	10,458	6.91	14.46	3,486	951	38	3	6
Livingston.....	4,094	4,094	9.92	10.08	4,094	512	129	1	7
Mackinac.....	334	334	14.37	6.96	-----	d	d	-----	-----
Macomb.....	5,664	5,664	10.73	9.32	1,416	629	200	4	11
Manistee.....	1,251	1,198	24.79	4.03	1,198	399	20	1	3
Manitou.....	135	135	22.22	4.50	-----	d	d	-----	-----
Marquette.....	2,695	2,695	33.06	3.02	270	385	250	10	15
Mason.....	653	540	25.93	3.86	-----	d	d	-----	1
Mecosta.....	1,223	1,223	21.91	4.56	1,223	136	80	1	4
Menominee.....	319	319	3.45	29.00	-----	d	d	-----	-----
Midland.....	681	681	23.20	4.31	-----	227	50	-----	5
Missaukee.....	20	20	125.00	.80	20	d	d	1	-----
Monroe.....	5,594	5,594	13.78	7.26	2,797	559	100	2	6
Montcalm.....	2,890	2,890	14.29	7.00	1,445	482	233	2	10
Muskegon.....	3,176	3,176	14.83	6.74	3,176	1,059	100	1	5
Newaygo.....	1,463	1,411	11.76	8.50	470	1,411	e	3	2
Oakland.....	9,158	9,158	6.03	16.59	9,158	763	200	1	7

• ~~Relationships~~ limits age of marriage of females to not less than that of sixteen years.
 • ~~Relationships~~ of counties and townships represented by births in 1874 is used in computing
 raised county of Ogemaw. d No twin births returned. e No males.

TABLE XX.—CONTINUED.

COUNTIES.	Female Population Aged 16 to 45, June 1, 1870. ^a	Female Population Aged 16 to 45, June 1, 1870, Represented by Births in 1874.	Per Ct. of Births in 1874 to Females Aged 16 to 45, June 1, 1870. ^b	No. of Females Aged 16 to 45, June 1, 1870, to one Child Born in 1874. ^c	No. of Females Aged 16 to 45, June 1, 1870, to one Illegitimate Child Born in 1874. ^d	No. of Females Aged 16 to 45, June 1, 1870, to one Pair of Twins Born in 1874. ^e	Twin Children,—No. of Males to 100 Females.	No. of Illegitimate Children Born in 1874.	No. of Still-births in 1874.
Oceana	1,516	1,516	16.42	6.69	758	758	300	2	4
Ontonagon	491	491	18.53	5.40	246	164	100	2	2
Osceola	408	408	51.47	1.94	-----	408	c	-----	5
Ottawa	5,128	5,128	17.00	5.88	1,282	466	57	4	13
Presque Isle	56	56	39.29	2.55	-----	d	d	-----	1
Saginaw	8,208	8,208	16.51	6.06	8,208	822	122	1	28
Sanilac	2,690	2,690	19.33	5.17	-----	299	200	-----	3
Schoolcraft	129	129	37.98	2.63	-----	129	e	-----	5
Shiawassee	4,545	4,545	9.97	10.03	4,545	758	1,100	1	5
St. Clair	7,407	7,407	13.69	7.30	3,704	436	100	2	8
St. Joseph	5,797	5,797	7.59	13.18	725	1,932	200	8	5
Tuscola	2,734	2,734	15.62	6.40	-----	547	233	-----	3
Van Buren	6,306	6,306	8.19	12.22	-----	701	80	-----	4
Washtenaw	9,221	9,221	7.22	13.85	3,074	2,305	167	3	16
Wayne	27,102	27,202	16.01	6.25	254	349	90	107	74
Wexford	144	144	41.67	2.40	-----	144	e	-----	4

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population of counties and townships represented by births in 1874 is used in computing statements in this column.

^c No males.

^d No twin births returned.

Exhibit 10 shows the townships in which it is reported that no births occurred in 1874, representing 917 inhabitants in 1870. The similar exhibit for 1873 shows that there were only 429 inhabitants in 1870 in townships which were reported to have had no births in 1873.

EXHIBIT 10.—*Counties and Townships in which it is Reported that there were no Births in 1874.*

COUNTIES.	TOWNSHIPS.	POPULATION, 1870.		
		Total.	Males.	Females.
Total		917	542	375
Antrim	Forest Home			
Iosco	Ogemaw			
Keweenaw	{ Grant	152	75	77
	{ Isle Royal			
Lake	Killbuck			
Menominee	{ Cedarville	196	148	48
	{ Ingallston			
Newaygo	Big Prairie	403	221	181
Ontonagon	Algonquin	54	30	24
Sanilac	Moore	113	68	45

* Organized since census was taken. b No population reported.

Table XXI. shows the townships and counties from which no returns of births were received for 1874, representing a population of 3,929 in 1870; the counties and townships not represented by returns of births in 1873 had a population in 1870 of 5,200.

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1874 were Received, the Number of Females Aged 16 to 45, and by Sex and by Color, the Number of Inhabitants, June 1, 1870, in such Counties and Townships.

COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION, JUNE 1, 1870.				WHITE.			BLACK.			MULATTO.			INDIAN.			NATIVE.			FOREIGN.		
		Total.	Males.	Females.	Returned 16 to 45.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Totals.....		3,929	2,142	1,787	618	3,785	2,075	1,710				8	3	5	136	64	72	2,933	1,539	1,394	896	603	393
Alpena.....	Ossineke..... ^a	144	91	53	24	144	91	53										57	38	19	87	53	34
Bay.....	Clayton..... ^b																						
Chippewa.....	Warner..... ^c	238	137	101	47	158	99	59							80	38	42	148	81	67	90	56	34
Delta.....	Masonville..... ^a	152	105	47	13	152	105	47										62	39	23	90	66	24
	Sack Bay..... ^b																						
Grand Traverse.....	Whitewater..... ^c	510	271	239	112	510	271	239										396	205	191	114	66	48
Huron.....	Bloomfield..... ^b																						
	White Rock..... ^c	270	142	128	61	270	142	128										177	92	85	93	50	43
Iosco.....	Baldwin..... ^d																						
Isabella.....	Sherman..... ^c	134	83	51	25	134	83	51										104	65	39	30	18	12
	Union..... ^c	657	320	337	143	657	320	337										571	282	289	86	38	48
	Arcada..... ^c	175	93	82	32	175	93	82										155	81	74	20	12	8
Manistee.....	Morilla..... ^a	129	74	55	20	129	74	55										100	57	43	29	17	12
	Hamlin..... ^a	124	80	44	24	117	77	40							7	3	4	63	35	28	61	45	16
Mason.....	Lincoln..... ^a	165	99	66	36	165	99	66										93	51	42	72	48	24
	Summit..... ^a	257	137	120	53	257	137	120										188	98	90	69	39	30
Midland.....	Mt. Hayley..... ^b																						
Newaygo.....	Brooks..... ^c	974	510	464	52	917	484	433				8	3	5	49	23	26	819	415	404	155	95	60
Presque Isle.....	Presque Isle..... ^b																						
	Rogers..... ^c																						
	Clam Lake..... ^a																						
Wexford.....	Harring..... ^b																						

^a No returns from county clerk. ^b Organized since census was taken. ^c County clerk says no returns of births from Supervisor. ^d No population reported. ^e Attached to Alpena when census was taken, and comprised the unorganized county of Presque Isle. ^f County clerk says returns of Supervisor were received too late to be embodied in his returns to this department.

SEX OF CHILDREN.

The influence of season of year, of deaths, of parent-nativity, etc., upon the sex of the children born can be studied in connection with the tables and exhibits which follow. The births are stated by months, as they are returned, as they are when the months are made of equal length, and as they appear after certain corrections have been made which seem to be essential in order to show the proper proportions in the several months. Exhibit P contains the evidence in this corrected form. If one wishes to see it before the correction, this can be done by examining Exhibits N and O.

EXHIBIT N.—*Births Returned as having occurred in Michigan during the Year 1874, by Sex and Months equalized to 30.44 days each.*

SEX.	Year, 1874. ^a	MONTHS OF BIRTH, EQUALIZED, 1874.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total.....	31,145	1,865	2,124	2,418	2,500	2,539	2,585	2,711	3,021	3,016	2,677	2,768	2,868	45
Males.....	16,279	975	1,124	1,275	1,320	1,312	1,360	1,455	1,558	1,567	1,400	1,406	1,512	23
Females..	14,817	889	996	1,139	1,179	1,224	1,242	1,252	1,459	1,447	1,272	1,353	1,348	17
Unknown	49	1	4	4	1	3	3	4	4	2	5	5	8	5

^a The number of births of each sex, and the total number, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. The total number as equalized is six less than the total number returned.

EXHIBIT O.—*Births Returned as having occurred in Michigan during the Year 1874, by Sex and by Months, equalized to 30.44 days each, and by Months the excess of Males over Females. Unknown sex and unknown months excluded.*

SEX.	Year, 1874. ^a	MONTHS OF BIRTH, EQUALIZED, 1874.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes.....	31,068	1,864	2,120	2,414	2,499	2,536	2,592	2,707	3,017	3,014	2,673	2,761	2,860
Males.....	16,256	975	1,124	1,275	1,320	1,312	1,360	1,455	1,558	1,567	1,400	1,406	1,512
Females.....	14,800	889	996	1,139	1,179	1,224	1,242	1,252	1,459	1,447	1,272	1,353	1,348
Excess of Males over Females	1,456	86	128	136	141	88	106	203	99	120	128	55	164
Males to 100 Fe- males	110	110	113	112	112	107	109	116	107	108	110	104	112

^a The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown months and of unknown sex,—⁴⁹. These and the six lost in equalizing, added to the number shown in this table, make the number as returned by registration officers.

EXHIBIT P.—*Births Returned as having occurred in Michigan during the Year 1874, by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the returns, and as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each. Unknown sex and unknown months excluded.*

SEX.	Year, 1874.	MONTHS OF BIRTHS, 1874.											
		Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes.....	57,142	4,389	4,505	5,254	5,219	5,037	4,956	4,947	5,243	4,980	4,189	4,090	4,008
Males.....	31,163	2,415	2,673	2,908	2,885	2,740	2,693	2,764	2,814	2,683	2,267	2,150	2,171
Females.....	25,979	1,974	2,132	2,346	2,334	2,327	2,263	2,183	2,429	2,297	1,922	1,940	1,832

TABLE XXII.—*Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1873-4, and the proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1874, According to the Returns.*

CONCEPTIONS FOR BIRTHS IN 1874.*					
Months of 1873 and 1874 of Conceptions of Births in 1874, in order by Number, the least Number first.		Total No. of Conceptions. ^b	Months of 1873 and 1874, in order by Number of Males to 100 Females, the greatest Number first.		No. of Males to 100 Females.
Less than the Average Number of Conceptions.	April.....	1,864	More than the Average proportion of Males.	October..... ^c	116.21
	May.....	2,120		May.....	112.85
	June.....	2,414		March, 1874..... ^c	112.17
	July.....	2,499		July.....	111.96
	August.....	2,536		June.....	111.94
	Average..... ^a	2,588		January, 1874..... ^c	110.06
More than the Average Number of Conceptions.	September.....	2,592	Average..... ^a		109.84
	January, 1874.....	2,672	Less than the Average proportion of Males.	April..... ^c	109.67
	October.....	2,707		September.....	108.70
	February, 1874.....	2,761		December.....	108.29
	March, 1874.....	2,800		August..... ^c	107.19
	December.....	3,014		November.....	106.79
	November.....	3,017		February, 1874.....	104.07

* Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

^b For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

^c Exceptions to proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII.—*Exhibiting, by Months, the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

CONCEPTIONS OF BIRTHS IN 1874.*			
Months of 1873 and 1874 of Conceptions of Births in 1874, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to months of uniform length. Months arranged in order by number, the least number first.		Months of 1873 and 1874 of Conceptions of Births in 1874, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to months of uniform length. Months arranged in order by number of males to 100 females, greatest number first.	
		No. of Conceptions as Corrected and Equalized, b	No. of Males to 100 Females, Births Corrected and Equalized, b
Less than the Average Number of Conceptions.	March, 1874.....	3,988	October..... ^c 126.61
	February, 1874.....	4,062	May..... 125.38
	January, 1874.....	4,145	June..... ^c 123.96
	April.....	4,311	July..... ^c 123.55
	May.....	4,627	April..... 122.33
	Average..... ^b	4,653	Average..... ^b 119.92
More than the Average Number of Conceptions.	September.....	4,836	September..... 119.02
	October.....	4,945	March, 1874..... ^c 118.62
	December.....	4,911	January, 1874..... ^c 118.04
	August.....	4,929	August..... 117.81
	July.....	5,059	December..... 116.78
	June.....	5,075	November..... 115.79
	November.....	5,153	February, 1874..... ^c 110.79

* See note b to Table XXII., page 74.

^b Excluding unknown month and unknown sex.

^c Exceptions to proposition that *more* than the average proportion of males were conceived in months in which *less* than the average number of conceptions occurred, and *less* than the average proportion of males in months in which *more* than the average number of conceptions occurred.

TABLE XXIV.—*Exhibiting, by Months, according to the Returns, the Relation between the total Number of Conceptions, and the total Number of Deaths which occurred in the Months of the Years 1873 and 1874 in which were Conceived the Children born during the Year ending December 31, 1874.*

DEATHS.			CONCEPTIONS. ^b		
Months ^a of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by total number of Deaths, the least first.		Number of Deaths as Equalized.	Months ^a of 1873 and 1874 of Conceptions of Births in 1874, in order by number, the least number first.		Number of Conceptions as Equalized. ^b
Less than the Average Number of Deaths.	January, 1874.....	643	Less than the Average Number of Conceptions.	April.....	1,865
	February, 1874.....	730		May.....	2,124
	March, 1874.....	902		June.....	2,418
	June.....	1,055		July.....	2,500
	November.....	1,038		August.....	2,539
	Average.....	1,100.8		Average.....	2,592
More than the Average Number of Deaths.	May.....	1,101	More than the Average Number of Conceptions.	September.....	2,596
	December.....	1,115		January, 1874.....	2,677
	July.....	1,155		October.....	2,711
	April.....	1,191		February, 1874.....	2,766
	October.....	1,235		March, 1874.....	2,868
	September.....	1,492		December.....	3,016
	August.....	1,507		November.....	3,021

^a Equalized to months of 30.44 days each, excluding unknown month.

^b See note ^b to Table XXII., page 74.

TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths; the Number of Deaths and Births returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and equalized to Months of uniform length.*

DEATHS.		CONCEPTIONS.*	
Months of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by number of Deaths, the least number first. Deaths corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.		Months of 1873 and 1874 of Conceptions of Births in 1874, estimated from Births Corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.	
	No. of Deaths as Corrected and Equalized. b		No. of Conceptions as Corrected and Equalized. b
Less than the Average Number of Deaths.		Less than the Average Number of Conceptions.	
January, 1874.....	1,272	March, 1874.....	3,395
February, 1874.....	1,400	February, 1874.....	4,069
December.....	1,346	January, 1874.....	4,143
November.....	1,352	April.....	4,207
June.....	1,536	May.....	4,623
October.....	1,594	Average.....	4,653
Average.....	1,612	More than the Average Number of Conceptions.	
More than the Average Number of Deaths.		September.....	4,837
July.....	1,633	October.....	4,840
May.....	1,648	December.....	4,910
March, 1874.....	1,674	August.....	4,931
April.....	1,832	July.....	5,052
September.....	1,988	June.....	5,075
August.....	2,069	November.....	5,158

* See note b to Table XXII., page 74.

b Excluding unknown month.

TABLE XXVI.—*Exhibiting, by Months, the Relation between the Number of Deaths and the proportion of each Sex Conceived during the same Months of the Years 1873 and 1874, the Number of Births and Deaths Returned from which Conceptions are estimated being corrected as if enumerated in Months of Occurrence, and Equalized to Months of uniform length.*

DEATHS.			CONCEPTIONS. ^a		
Months of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by number of Deaths, least Number first. Deaths corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length.		No. of Deaths as Corrected and Equalized.	Months of 1873 and 1874 of Conceptions of Births in 1874, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by Number of Males to 100 Females, greatest number first.		No. of Males to 100 Females. Births Corrected and Equalized. ^b
Less than the Average Number of Deaths.	January, 1874.....	1,273	More than the Average proportion of Males.	October.....	126.61
	February, 1874.....	1,400		May.....	125.36
	December.....	1,346		June.....	122.96
	November.....	1,352		July.....	123.55
	June.....	1,536		April.....	122.33
	October.....	1,594		Average.....	119.92
Average.....		1,612	Less than the Average proportion of Males.	September.....	119.02
More than the Average Number of Deaths.	July.....	1,633		March, 1874.....	118.53
	May.....	1,648		January, 1874.....	118.04
	March, 1874.....	1,674		August.....	117.81
	April.....	1,832		December.....	116.73
	September.....	1,968		November.....	115.79
August.....		2,069		February, 1874.....	112.79

^a See note ^b to Table XXII., page 74.

^b Excluding births in unknown month and of unknown sex.

TABLE XXVII.—*Exhibiting, by Months, According to the Returns, the Relation between the Total Number of Deaths and the proportion of each Sex Conceived during the same Months of the Years 1873 and 1874, and Born during the Year ending December 31, 1874.*

DEATHS.		CONCEPTIONS. ^a	
Months ^b of 1873 and 1874 of Conceptions of Births in 1874, arranged in order by Number of Deaths, the least Number first.		Months ^b of 1873 and 1874 in order by Number of Males to 100 Females, the greatest Number first.	
	No. of Deaths as Equalized.		No. of Males to 100 Females. ^c
Less than the Average Number of Deaths.	January, 1874.....	October.....	116.31
	February, 1874.....	May.....	112.65
	March, 1874.....	March, 1874.....	112.17
	June.....	July.....	111.96
	November.....	June.....	111.94
	Average..... ^b	January, 1874.....	110.06
More than the Average Number of Deaths.	May.....	Average..... ^c	109.64
	December.....	April.....	109.67
	July.....	September.....	108.70
	April.....	December.....	108.29
	October.....	August.....	107.19
	September.....	November.....	106.79
	August.....	February, 1874.....	104.07
		Less than the Average proportion of Males.	

^a See Note ^b to Table XXII., page 74.

^b Equalized to months of 30.44 days each, excluding unknown month.

^c Excluding unknown month and unknown sex.

TABLE XXVIII.—*Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Returned as having been Born in Michigan during the Year 1874, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the influence of Parent-Nativity upon Sex of Children.*

NATIVITY OF PARENTS.		BIRTHS, 1874.*		BOYS TO 100 GIRLS.			
		Males.	Females.	Total Births.*	Twin Children.	Illegitimate.	Still-born.
All Nativities.....		16,233	14,819	109.88	110.91	117.59	149.14
Both Parents Native.....		6,982	6,844	110.05	128.57	-----	161.90
Both Parents Foreign.....		5,469	5,034	108.64	103.87	-----	144.64
Foreign Father and Native Mother.....		1,679	1,443	115.95	134.15	-----	200.00
Foreign Mother and Native Father.....		867	811	106.91	70.00	-----	211.11
One or Both Unknown.....		1,236	1,182	108.71	52.33	-----	90.68
Mothers.....	{ Native	8,756	7,891	110.96	128.26	120.00	167.09
	{ Foreign	6,441	5,937	108.49	98.90	132.50	153.08
	{ Unknown.....	1,086	991	109.59	57.89	77.77	93.33
Fathers	{ Native	8,216	7,494	109.63	118.39	244.44	170.67
	{ Foreign	7,643	6,932	110.26	105.83	120.60	154.79
	{ Unknown.....	424	393	107.89	60.00	105.32	74.07
One or Both Native.....		9,990	9,041	110.50	121.40	-----	173.63
One or Both Foreign.....		8,615	7,835	109.95	101.72	-----	160.24
Both Unknown.....		224	202	110.89	100.00	-----	76.00
Same Country.....		b 12,451	b 11,378	109.43	114.76	-----	153.78
Different Countries.....		c 2,546	c 2,239	112.70	112.13	-----	204.13
Same American State or Foreign Country		-----	-----	-----	111.11	-----	177.02
Different Am. States or Foreign Countries.....		-----	-----	-----	127.08	-----	121.43

* Excluding unknown sex.

b Includes "Native" and "Foreign."

c Includes "Foreign Father and Native Mother" and "Foreign Mother and Native Father."

Table XXIX. and Exhibit Q may be studied together with reference to the influence of marriage of persons of different sexes at different ages on the sex of the offspring. The evidence is the best available, and is probably valuable for comparison with other localities. It cannot, however, be considered conclusive by itself, because we cannot follow the marriages in any way to learn the results of those which were fruitful, and it is difficult to estimate whether or not the influence on the births is greatest, on an average, in the year following the marriages, and especially as the women married in a single year are a small proportion of the married women who bear children in the succeeding year. It is believed, however, that the table and the exhibit are

well worthy of study for other purposes. The reading of the exhibit may be facilitated by a little explanation. The average for the five years may be read as follows:—

Of the men who married between the ages of 20 and 25	{	52.99	per cent. married women aged under 20
		40.44	" " " " " " 20 to 25
		5.24	" " " " " " 25 to 30
		.69	" " " " " " 30 to 35
" " " " " " 25 and 30	{	34.14	" " " " " " under 20
		45.18	" " " " " " 20 to 25
		17.47	" " " " " " 25 to 30
		3.01	" " " " " " 30 to 35
" " " " " " 30 and 35	{	19.56	" " " " " " under 20
		37.39	" " " " " " 20 to 25
		24.66	" " " " " " 25 to 30
		12.91	" " " " " " 30 to 35

EXHIBIT Q.—*The Per Cent. of Persons at certain specified Periods of Age who were Married to those of the Opposite Sex at certain specified Periods of Age, in Michigan in 1870, 1871, 1872, 1873, and 1874, and the Average for 5 Years ending with 1874.*

YEARS.	MALES.	PER CENT. OF MALES MARRIED TO FEMALES, AT CERTAIN AGES.			
		FEMALES.			
	AGES.	Under 20.	20 to 25.	25 to 30.	30 to 35.
Average for 5 years, 1870-1874.	20 to 25.....	52.99	40.44	5.24	.69
	25 to 30.....	34.14	45.18	17.47	3.01
	30 to 35.....	19.56	37.39	24.66	12.91
1870.....	20 to 25.....	52.27	41.24	4.93	.80
	25 to 30.....	32.25	45.69	17.46	2.93
	30 to 35.....	20.77	39.63	20.99	13.60
1871.....	20 to 25.....	52.10	41.16	5.47	.66
	25 to 30.....	38.27	46.66	17.78	2.42
	30 to 35.....	19.36	36.75	26.19	12.97
1872.....	20 to 25.....	53.68	39.71	5.17	.72
	25 to 30.....	32.60	45.33	17.71	3.28
	30 to 35.....	19.32	33.14	26.03	11.11
1873.....	20 to 25.....	52.56	40.93	5.27	.68
	25 to 30.....	32.30	44.53	18.09	2.76
	30 to 35.....	19.34	36.85	24.91	13.07
1874.....	20 to 25.....	54.36	39.18	5.34	.60
	25 to 30.....	35.26	43.62	16.32	2.65
	30 to 35.....	19.01	35.37	26.20	13.80

TABLE XXIX.—*Influence of Parent-Nativity*

NATIVITY OF PARENTS.	BOYS TO 100 GIRLS.										
	AVERAGES FOR 5 YEARS, 1870-1874.				TOTAL BIRTHS.						
	Total Births	Twin Chil- dren.	Ille- git- mates.	Still- Births	1870.	1871.	1872.	1873.	1874.		
All Nativities.....	108.82	103.61	103.31	155.50	108.80	110.29	107.46	107.67	109.88		
Both Parents Native.....	107.63	103.41	-----	157.77	109.46	106.09	106.24	106.29	110.05		
Both Parents Foreign.....	110.20	107.41	-----	190.16	104.31	116.15	107.36	109.52	106.64		
Foreign Father and Native Mother.....	110.42	105.94	-----	123.33	104.18	118.56	109.02	104.41	115.95		
Foreign Mother and Native Father.....	107.72	123.08	-----	164.22	111.84	100.33	112.08	107.49	106.91		
One or Both Unknown.....	110.93	95.08	-----	203.91	105.91	106.30	112.40	119.33	106.71		
Mothers.....	{	Native.....	108.02	103.98	113.60	152.24	108.64	107.74	106.74	106.00	110.96
		Foreign.....	109.77	107.34	98.00	181.63	109.65	113.79	107.43	109.48	106.49
		Unknown.....	114.04	71.43	101.62	215.30	-----	110.28	118.01	118.26	109.59
Fathers.....	{	Native.....	107.78	102.11	160.28	158.71	109.69	106.83	107.06	106.70	109.63
		Foreign.....	110.51	105.92	68.27	171.26	106.23	117.33	106.25	108.46	110.26
		Unknown.....	104.67	183.75	101.92	174.69	-----	83.44	100.68	116.67	107.69
One or Both Native.....	108.09	102.90	-----	153.82	108.90	107.29	107.88	106.37	110.50		
One or Both Foreign.....	110.13	105.95	-----	168.17	108.62	115.32	106.22	108.56	109.96		
Both Unknown.....	105.05	90.00	-----	169.78	-----	87.40	109.71	112.21	110.89		
Same Country.....	106.71	104.28	-----	171.43	109.41	110.36	106.73	107.65	109.43		
Different Countries.....	109.35	107.22	-----	138.16	106.96	111.53	110.05	105.52	112.70		
Same American State or Foreign Country..	-----	101.56	-----	153.38	-----	-----	-----	-----	-----		
Different Am. States or Foreign Countries.	-----	109.11	-----	236.96	-----	-----	-----	-----	-----		

on Sex of Offspring for the Years 1870-1874.

BOYS TO 100 GIRLS.

TWIN CHILDREN.					ILLEGITIMATE CHILDREN.					STILL-BORN CHILDREN.				
1870.	1871.	1872.	1873.	1874.	1870.	1871.	1872.	1873.	1874.	1870.	1871.	1872.	1873.	1874.
107.14	112.85	91.60	95.56	110.91	108.10	80.00	95.05	115.83	117.59	162.50	162.96	122.22	180.70	149.14
106.02	97.01	77.78	107.65	126.57	-----	-----	-----	-----	-----	127.27	210.00	103.39	186.27	161.90
100.00	146.51	101.52	85.14	103.87	-----	-----	-----	-----	-----	320.00	166.66	140.54	178.95	144.64
92.30	88.23	125.00	90.00	134.15	-----	-----	-----	-----	-----	200.00	33.33	50.00	133.33	200.00
211.11	45.45	200.00	82.86	76.00	-----	-----	-----	-----	-----	150.00	100.00	180.00	200.00	211.11
106.00	126.00	50.00	140.00	52.28	-----	-----	-----	-----	-----	a	150.00	225.00	350.00	90.63
106.86	96.02	84.62	105.16	128.96	107.31	117.84	98.04	125.00	120.00	142.85	176.92	97.06	177.27	167.09
109.17	135.06	106.90	86.67	98.90	95.23	78.04	71.05	113.16	132.50	271.42	180.00	142.98	180.85	153.03
-----	126.66	41.18	60.00	57.89	133.33	32.00	153.33	106.67	77.77	-----	125.00	242.86	406.00	93.83
113.45	93.10	82.89	102.73	118.39	135.29	116.66	190.00	115.00	244.44	130.77	191.66	110.61	189.83	170.67
96.41	136.89	102.47	85.99	105.63	45.45	40.00	66.67	69.23	190.00	275.00	126.66	131.91	167.92	154.79
-----	100.00	75.00	500.00	60.00	112.04	82.19	87.34	121.70	105.82	-----	b	200.00	200.00	74.07
110.66	92.59	88.63	101.20	121.40	-----	-----	-----	-----	-----	143.75	196.66	104.00	181.08	173.63
105.92	128.07	106.86	87.19	101.72	-----	-----	-----	-----	-----	250.00	125.00	134.62	170.97	180.24
-----	100.00	60.00	100.00	100.00	-----	-----	-----	-----	-----	-----	b	233.33	200.00	76.00
104.96	115.09	89.00	97.57	114.76	-----	-----	-----	-----	-----	187.50	218.75	120.63	176.47	153.78
122.85	88.88	126.09	86.17	112.12	-----	-----	-----	-----	-----	180.00	42.85	82.25	181.43	204.13
100.00	130.64	85.78	90.28	111.11	-----	-----	-----	-----	-----	135.71	180.00	120.00	174.19	177.02
106.66	106.15	94.87	110.81	127.08	-----	-----	-----	-----	-----	450.00	300.00	109.68	203.70	121.43

a No males. b No females.

MARRIAGES.

There were 11,041 marriages reported to have been solemnized during the year ending December 31, 1874. This is the largest number ever included in the first returns to this Department for any one year; but it is probable that this number does not include all the marriages that were solemnized in Michigan in 1874. The returns for every year include some marriages that were solemnized in previous years. It was stated in the last Report that there would probably be some additions to the number there published, in subsequent returns; and the returns for 1874 confirmed the statement, by 1,168 marriages in the returns for 1874 which were returned as having been solemnized in 1873, thus increasing the number of marriages returned for 1873 from 10,574 to 11,742 (See Table XII., following). Judging from this, the number of marriages solemnized in Michigan in 1874 will be increased to over 12,000.

The number of marriages returned to this Department subsequent to the original returns, for each of the years 1870-1873, is as follows: for 1870, 613 marriages have been returned since the first compilation for that year; for 1871, 376; for 1872, 655; and for 1873, 1,168.

The average age of persons married in Michigan in 1874, according to the returns for that year, was as follows:

Average Age of Males married in 1874.....	28.07 years.
Average Age of Females married in 1874.....	21.19 years.

This is the first time such a showing has been made, and it is hoped that after a series of years something useful may be learned from it.

The average number of marriages for each of certain specified periods of time, during the year 1874, including those in unknown month, is as follows:

Average number per quarter.....	2,760.25
Average number per month.....	920.08
Average number per week.....	212.33
Average number per day.....	30.25

Table I. enables one to study the proportion of marriages solemnized in different seasons of the year, and shows that the largest proportion were solemnized during the last quarter of the year, the next largest during the first quarter, the third largest during the third quarter, and the smallest during the second quarter of the year—the quarter ending with June. The additional number of marriages for 1874 which will doubtless be returned with those for 1875, will probably greatly increase the number and proportion solemnized during the last quarter, and will increase the number for the quarter ending with September so that the proportion for this third quarter will be next to that for the last quarter of the year. In Table I., the number for each year is corrected up to March 16, 1876, for additional returns. Table I. shows that, for each of the years 1868-1874, the largest proportion of the

marriages were solemnized during the last quarter of the year,—October, November, and December.

TABLE I.—*Marriages by Quarters of the Year, showing Number and Per Cent. in each Quarter of the Year for each of the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional returns, up to March 15, 1876.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.		1874.	
	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
Totals.....	8,697	100.00	10,392	100.00	9,773	100.00	10,577	100.00	10,677	100.00	11,742	100.00	11,041	100.00
March.....	1,540	17.71	2,322	22.34	2,503	25.61	2,532	23.94	2,397	22.45	2,651	22.58	2,832	25.65
June.....	1,829	21.03	2,292	22.06	2,164	22.14	2,294	21.69	2,357	22.07	2,683	22.85	2,483	22.49
September..	2,172	24.97	2,470	23.77	2,184	22.35	2,513	23.78	2,605	24.40	2,983	25.40	2,713	24.57
December..	3,148	36.20	3,290	31.66	2,964	29.71	3,223	30.47	3,311	31.01	3,420	29.12	3,003	27.30
Unknown..	8	.09	18	.17	18	.18	15	.14	7	.07	5	.04	10	.09
Average...*	2,174	25.00	2,598	25.00	2,443	25.00	2,644	25.00	2,669	25.00	2,936	25.00	2,760	25.00

* The number in unknown quarter of year included.

Exhibit A differs from Table I. in that the Exhibit shows the number and proportion of marriages solemnized in each of the years 1868–1874 as first returned, tabulated, and published, without the corrections for additional returns. A comparison of this Exhibit with Table I. will show the number added to the number originally returned for each year, because of additional returns.

EXHIBIT A.—*Marriages by Quarters of the Year, showing Number and Per Cent. in each Quarter of the Year, for each of the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874 as Originally Returned and published in Reports.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.		1872.		1873.		1874.	
	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
Totals	8,966	100.00	8,459	100.00	9,160	100.00	10,181	100.00	9,882	100.00	10,574	100.00	11,041	100.00
March.....	1,377	20.05	2,167	25.61	2,429	26.51	2,475	24.30	2,326	23.54	2,580	24.39	2,832	25.65
June.....	1,667	24.13	2,097	24.79	2,081	22.71	2,250	22.09	2,281	23.08	2,578	24.38	2,483	22.49
September..	1,886	27.46	2,154	25.46	2,073	22.63	2,423	23.79	2,471	25.01	2,774	26.23	2,713	24.57
December..	1,924	28.16	2,024	23.92	2,560	27.94	3,018	29.64	2,797	28.30	2,637	24.94	3,003	27.20
Unknown..	12	.17	17	.20	17	.18	15	.14	7	.07	5	.05	10	.09
Average...*	1,716	25.00	2,114	25.00	2,290	25.00	2,545	25.00	2,471	25.00	2,644	25.00	2,760	25.00

* Includes those in unknown quarter of year.

Table II. shows the number of marriages, by months arranged in order by number, greatest first, for each of the years 1868-1874. In 1873 and 1874 the largest number and per cent. of total appear for October, the next largest for November; but in the previous years, the largest number and per cent. are shown for December. It is possible that the additional returns will increase the number for December so as to make it head the list.

TABLE II.—*Marriages by Months arranged in Order by Number, Months having the greatest Number first, for the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional Returns, up to March 15, 1876.*

Order.	1868.			1869.			1870.			1871.			1872.			1873.			1874.		
	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.	Montha.	Num. ber.	Per Ct. of Total.
1	Total....	8,697	100.00	Total....	10,392	100.00	Total....	9,773	100.00	Total....	10,577	100.00	Total....	10,677	100.00	Total....	11,742	100.00	Total....	11,041	100.00
2	1 Dec.....	1,143	13.14	1 Dec.....	1,186	11.40	1 Dec.....	1,015	10.39	1 Dec.....	1,177	11.13	1 Dec.....	1,181	11.06	1 Oct.....	1,173	9.99	1 Oct.....	1,013	9.17
3	2 Nov.....	1,032	11.87	2 Nov.....	1,065	10.25	2 Nov.....	968	9.90	2 Oct.....	1,026	9.70	2 Oct.....	1,068	10.00	2 Nov.....	1,145	9.75	2 Nov.....	1,008	9.13
4	3 Oct.....	973	11.19	3 Oct.....	1,040	10.00	3 Oct.....	921	9.42	3 Nov.....	1,020	9.64	3 Nov.....	1,062	9.94	3 July.....	1,111	9.46	3 Dec.....	982	8.89
5	4 Sept.....	845	9.71	4 Sept.....	900	8.66	4 Jan.....	849	8.69	4 Jan.....	928	8.77	4 July.....	967	9.06	4 Dec.....	1,102	9.39	4 Jan.....	957	8.67
6	5 July.....	737	8.36	5 Jan.....	869	8.36	5 Mar.....	834	8.53	5 July.....	915	8.65	5 Apr.....	888	8.32	5 Sept.....	1,032	8.79	5 July.....	954	8.64
7	6 Jan.....	685	7.87	6 July.....	843	8.11	6 Feb.....	820	8.39	6 Apr.....	886	8.38	6 Sept.....	865	8.10	6 Jan.....	992	8.45	6 Sept.....	949	8.60
8	7 May.....	671	7.71	7 May.....	831	8.00	7 July.....	813	8.32	7 Sept.....	866	8.19	7 Mar.....	854	8.00	7 Apr.....	901	7.67	7 Feb.....	938	8.50
9	8 Apr.....	616	7.08	8 Apr.....	772	7.43	8 May.....	787	8.05	8 Mar.....	816	7.71	8 Jan.....	833	7.80	8 May.....	900	7.66	8 Mar.....	937	8.49
10	9 Aug.....	600	6.90	9 Mar.....	760	7.31	9 Apr.....	762	7.80	9 Feb.....	788	7.45	9 Aug.....	783	7.33	9 June.....	882	7.51	9 Apr.....	924	8.37
11	10 June.....	542	6.23	10 Aug.....	727	7.00	10 Sept.....	754	7.72	10 May.....	760	7.19	10 May.....	756	7.06	10 Mar.....	861	7.33	10 Aug.....	810	7.33
12	11 Feb.....	467	5.38	11 Feb.....	693	6.67	11 Aug.....	617	6.31	11 Aug.....	733	6.92	11 June.....	713	6.68	11 Aug.....	840	7.15	11 May.....	803	7.27
13	12 Mar.....	388	4.46	12 June.....	639	6.63	12 June.....	615	6.29	12 June.....	648	6.13	12 Feb.....	710	6.65	12 Feb.....	798	6.80	12 June.....	756	6.85
14	Unk.....	8	.09	Unk.....	18	.17	Unk.....	18	.18	Unk.....	15	.14	Unk.....	7	.07	Unk.....	5	.04	Unk.....	10	.09
15	Av.....	794.75	8.33	Av.....	866.00	8.33	Av.....	814.42	8.33	Av.....	881.43	8.33	Av.....	889.75	8.33	Av.....	978.50	8.33	Av.....	920.06	8.33

* Includes those for unknown month.

EXHIBIT B.—Marriages in Michigan during the Years 1868, 1869, 1870, 1871, 1872, 1873, and 1874, Corrected, for additional Returns, up to March 15, 1876, and Equalized to Uniform Months of 30.44 days each.

	YEAR.	TOTAL.	MONTHS.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Marriages as returned.....	1868	8,697	685	467	398	616	671	542	727	600	845	973	1,082	1,143	8
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....			-.56	+ 1.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56	-----
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....			-27	-12	+ 23	-7	+ 9	-12	+ 8	-13	-11	+ 13	-18	+ 15	-21
Marriages, equalized to months of uniform length.....		8,670	673	490	381	625	659	550	714	589	837	955	1,047	1,122	8
Marriages as returned.....	1869	10,392	869	693	760	772	831	689	843	737	900	1,040	1,065	1,185	18
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....			-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56	-----
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....			-3	-16	+ 60	-14	+ 11	-15	+ 10	-15	-13	+ 13	-19	+ 16	-21
Marriages, equalized to months of uniform length.....		10,389	863	703	746	783	816	699	828	714	913	1,031	1,061	1,164	18
Marriages as returned.....	1870	9,773	849	820	834	763	787	615	813	617	764	921	968	1,015	18
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....			-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56	-----
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....			+ 11	-15	+ 71	-15	+ 11	-14	+ 9	-15	-11	+ 11	-17	+ 14	-18
Marriages, equalized to months of uniform length.....		9,784	854	891	819	773	773	694	798	606	765	904	962	997	18
Marriages as returned.....	1871	10,577	928	798	816	886	760	648	915	732	896	1,026	1,020	1,177	15
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....			-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56	-----
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....			+ 4	-17	+ 69	-15	+ 13	-14	+ 10	-17	-13	+ 13	-19	+ 15	-21
Marriages, equalized to months of uniform length.....		10,581	911	857	801	869	746	668	883	719	879	1,007	1,035	1,156	15

EXHIBIT B.—CONTINUED.—*Marriages by Months.*

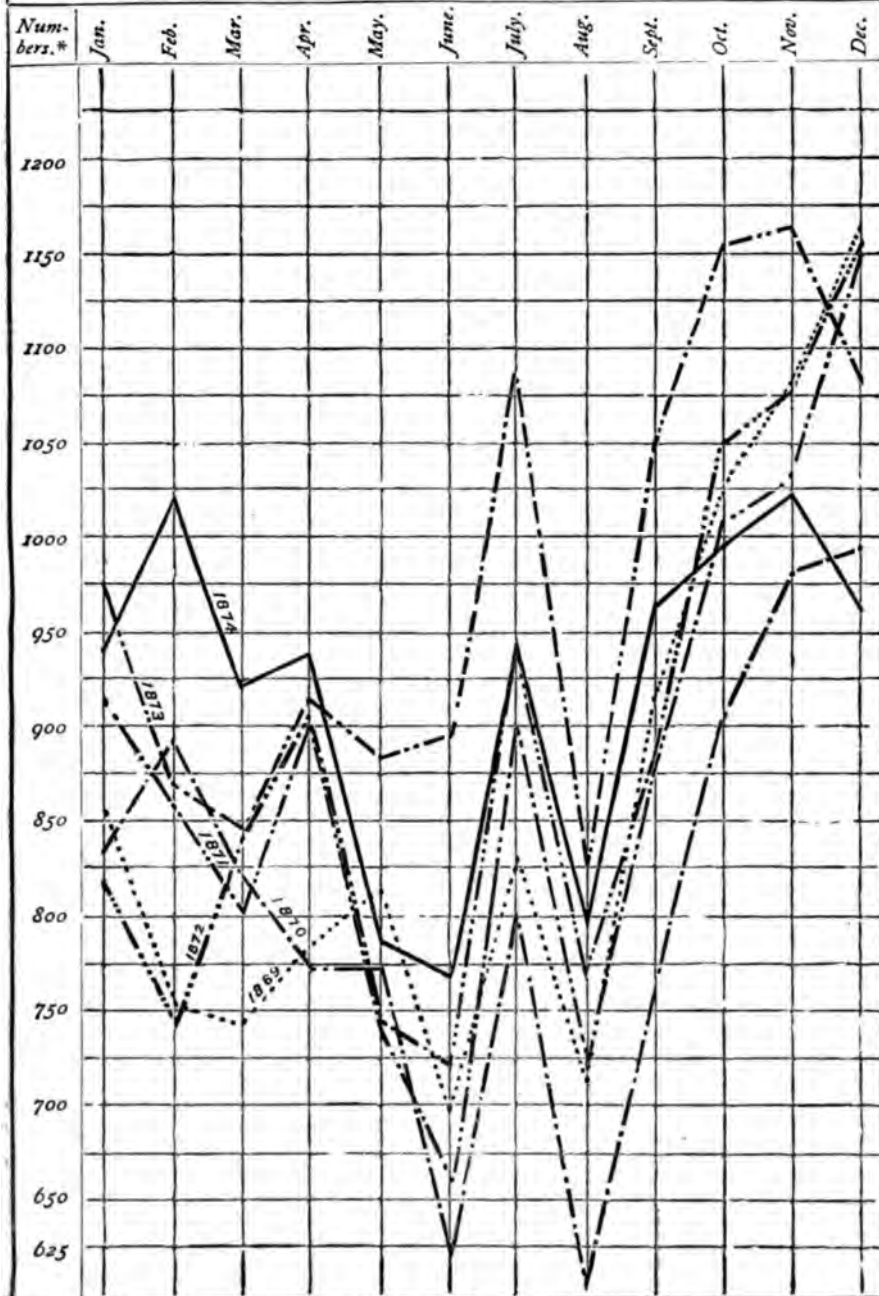
Year.	Total.	MONTHS.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Marriages as returned.....	10,677	833	710	964	888	766	713	967	783	865	1,068	1,062	1,181
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+1.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	1873	-15	+35	-15	+13	-14	+10	-17	-14	+13	-19	+16	-21
Marriages, equalized to months of uniform length.....	10,649	818	745	839	901	742	723	940	769	878	1,049	1,078	1,166
Marriages as returned.....	11,742	992	798	961	901	900	892	1,111	940	1,032	1,173	1,145	1,102
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	1873	-12	+70	-16	+13	-16	+13	-20	-15	+15	-21	+17	-20
Marriages, equalized to months of uniform length.....	11,744	974	868	845	914	884	896	1,091	925	1,047	1,152	1,162	1,062
Marriages as returned.....	11,041	957	938	937	924	803	756	964	810	949	1,013	1,008	992
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	1874	-17	+82	-17	+14	-15	+11	-17	-15	+14	-18	+15	-18
Marriages, equalized to months of uniform length.....	11,060	940	1,090	920	938	788	767	937	795	963	985	1,023	964

Exhibit B is similar in plan to the one published in the last Report, and shows the number of marriages for each of the years 1868-1874, by months, as returned and as equalized to months of equal length. Before the months of 1874 are equalized, the largest number of marriages appears for October, and the next largest for November, as is also shown in Table II.; but when the months are equalized to uniform length, as in the last line of this Exhibit, the largest number appears for November, the next largest for February,—the first time that February has ranked so high. In this Exhibit, all the years are corrected up to March 15, 1876, for additional returns (see remarks preceding Table I.), which correction has increased the number in some of the months over that shown in the corresponding Exhibit in preceding Report.

Diagram No. 2 is a graphic representation of the marriages for each of the years 1869-1874, by months equalized to uniform length, as shown in the fourth line for each year. An examination of the Diagram shows that the line for February, March, and April is higher for 1874 than for any other year, but from April the line representing 1874 suddenly drops, as do also the lines for most of the years, and from there the line for 1873 is the highest as far as November, and drops in December. The line for 1874 is next to the lowest of any year in November, and the lowest of all the years in December. It is probable that the returns for 1875 will increase the numbers for the last months of 1874 so as to greatly elevate the line representing the marriages solemnized during October, November, and December of the year 1874.

DIAGRAM No. 2.

Marriages in Michigan during the years 1869, 1870, 1871, 1872, 1873, and 1874, by Months
Equalized to uniform length of 30.44 days each. From Returns corrected up to
March 15, 1876.



*Scale=100 to the inch.

Drawn by L. De Lamarier.

Designed by Henry B. Baker.

MICH. ENG. CO.

MARRIAGES BY COUNTIES, BY MONTHS.

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TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized in Michigan during the Year ending December 31, 1874.*

STATE AND COUNTIES.	YEAR, 1874.	MONTHS, 1874.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE	11,041	957	938	937	924	903	756	954	810	949	1,013	1,008	982	10
Alcona	10	-----	-----	-----	3	-----	-----	1	2	-----	3	1	-----	-----
Allegan	277	22	21	23	17	20	17	36	19	20	24	30	28	-----
Alpena.....	53	2	1	1	8	9	7	6	4	4	8	6	2	-----
Antrim.....	30	2	3	1	4	4	3	2	1	1	2	-----	7	-----
Barry.....	176	11	26	19	10	10	18	10	9	11	19	17	16	-----
Bay	203	11	11	14	23	13	16	16	22	19	22	20	16	-----
Benzie.....	17	-----	1	3	-----	5	1	2	1	1	-----	1	2	-----
Berrien.....	304	44	19	37	24	24	29	30	21	22	20	20	12	2
Branch	309	33	21	22	19	21	12	25	23	25	31	28	49	-----
Calhoun.....	341	33	30	35	18	15	21	25	26	25	27	41	35	-----
Cass.....	202	14	21	18	18	16	10	17	11	17	21	21	18	-----
Charlevoix..	23	3	2	4	1	1	2	-----	2	3	3	1	1	-----
Cheboygan..	20	1	-----	3	5	1	2	3	-----	4	-----	1	-----	-----
Chippewa...	6	-----	-----	-----	-----	-----	-----	-----	-----	2	2	1	1	-----
Clare.....	6	-----	1	-----	-----	1	-----	1	-----	-----	1	1	1	-----
Clinton.....	160	11	14	16	13	16	12	19	10	17	11	11	10	-----
Delta.....	38	4	2	2	4	1	3	2	6	3	3	3	5	-----
Eaton.....	228	14	24	27	16	19	21	19	18	29	19	10	12	-----
Emmet.....	23	2	7	-----	1	2	3	2	1	1	1	3	-----	-----
Genesee.....	314	26	21	29	23	16	14	27	18	31	39	35	35	-----
Gr.Traverse	34	2	1	2	1	5	8	6	4	1	3	-----	1	-----
Gratiot.....	90	12	14	7	8	3	10	6	10	6	2	7	5	-----
Hillsdale...	404	35	37	30	33	20	23	37	33	34	35	29	57	1
Houghton..	136	14	12	14	10	8	8	10	7	18	18	8	9	-----
Huron.....	78	5	5	5	2	8	6	5	7	6	9	7	13	-----
Ingham.....	281	21	27	21	25	13	13	30	14	21	21	34	39	2
Ionia	248	23	17	34	29	11	24	25	14	26	24	8	13	-----
Iosco.....	21	2	5	-----	1	5	1	1	1	2	2	-----	1	-----
Isabella.....	50	3	3	4	3	9	5	2	6	4	4	2	-----	-----
Jackson.....	363	43	37	30	29	22	23	27	20	27	32	39	34	-----
Kalamazoo..	302	24	21	27	17	18	20	27	22	23	37	37	29	-----
Kalkaska...	9	-----	-----	1	4	-----	-----	1	-----	1	2	-----	-----	-----
Kent.....	520	49	51	27	54	44	39	62	28	53	47	41	25	-----
Keweenaw..	35	1	3	5	3	-----	1	1	4	7	2	2	1	-----

TABLE III.—CONTINUED.—*Marriages by Counties, by Months.*

COUNTIES.	YEAR, 1874.	MONTHS, 1874.												Unk.
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Lake.....	14	1	1	1	2	1	-----	-----	2	3	1	1	1	-----
Lapeer.....	194	17	7	21	21	7	19	18	9	11	16	25	22	1
Leelanaw ..	42	3	3	3	2	2	4	5	7	5	3	2	3	-----
Lenawee....	441	37	37	31	36	30	24	31	38	30	40	53	51	3
Livingston..	151	11	14	20	8	12	6	9	8	10	18	18	17	-----
Mackinac....	26	1	3	-----	3	8	3	3	-----	3	2	-----	-----	-----
Macomb.....	180	21	24	9	19	14	7	10	11	21	16	23	5	-----
Manistee....	67	3	-----	8	4	1	11	4	9	6	7	7	7	-----
Manitou.....	8	1	3	-----	-----	-----	-----	-----	-----	-----	-----	4	-----	-----
Marquette... Mason.....	206	25	17	10	14	18	19	10	26	12	19	17	19	-----
Mason.....	37	2	3	5	5	3	1	5	6	2	2	1	2	-----
Mecosta.....	87	7	6	9	7	5	7	6	6	6	10	8	10	-----
Menominee..	19	1	1	1	1	4	2	-----	1	2	2	1	3	-----
Midland.....	23	-----	-----	-----	2	-----	2	4	7	2	2	1	3	-----
Missaukee... Monroe.....	2	-----	-----	-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monroe.....	246	34	24	11	28	30	12	27	17	25	15	17	6	-----
Montcalm....	165	17	18	20	18	8	11	15	11	10	14	12	11	-----
Muskegon....	158	6	10	11	12	7	11	21	15	19	14	17	15	-----
Newaygo....	86	7	8	6	6	6	9	9	7	9	9	-----	10	-----
Oakland.....	273	28	16	24	16	16	13	17	16	34	30	34	29	-----
Oceana.....	77	5	6	10	3	9	4	9	5	4	7	8	7	-----
Ontonagon... Osceola.....	14	-----	2	1	2	1	1	2	3	2	-----	-----	-----	-----
Osceola.....	47	5	3	3	5	4	1	3	8	5	3	5	2	-----
Ottawa.....	224	18	17	21	25	18	15	19	15	17	24	21	14	-----
Presque Isle	10	-----	1	-----	3	1	-----	1	-----	-----	-----	2	2	-----
Saginaw.....	379	20	35	31	35	35	32	24	22	36	27	44	38	-----
Sanilac.....	107	6	11	11	8	12	9	9	3	7	6	11	14	-----
Schoolcraft ..	6	2	-----	-----	-----	-----	-----	1	2	-----	-----	1	-----	-----
Shiawassee..	152	8	14	23	6	10	10	13	20	11	17	13	7	-----
St. Clair....	389	22	26	31	34	33	25	36	23	32	35	33	39	-----
St. Joseph... Tuscola	278	22	21	18	15	23	16	17	26	26	26	24	45	-----
Tuscola	121	12	17	12	14	6	6	15	5	8	6	11	7	-----
Van Buren... Washtenaw ..	257	18	19	29	14	29	13	22	22	27	21	18	24	1
Washtenaw ..	214	18	20	20	26	15	11	22	23	18	17	17	7	-----
Wayne.....	1,023	107	82	74	101	74	77	82	72	81	100	92	81	-----
Wexford....	22	5	1	2	1	2	1	2	1	1	-----	2	4	-----

Table IV. shows the marriage-rate to be slightly greatest among the African race ("Black and Mulatto"), and least among the Indians, though there are not in this respect great differences in the races. In studying this table, reference may be made to Exhibit 9, and Table XVII., of Births, and remarks thereon, where it is shown that the illegitimate birth-rate is larger among the Indians than among any other race included in the tabulation. For the year 1873, the marriage-rate was also smaller among the Indians than among any other race included in the table; but in the corresponding table for each of the years 1870, 1871, and 1872, the marriage-rate appears slightly greater among the Indians than among the other races. In computing the marriage-rate, the compiler is obliged to use the population in 1870, and the marriages in the respective years; and as the population may fluctuate, the rates as shown in the tables are not perfect.

The table shows the marriage-rate to be greater among females than males; it is greatest among all female inhabitants, and among the females of each color.

In 1874, 34 persons are reported to have married those of another color.

TABLE IV.—*Exhibiting, by Color and by Sex, the Population, June 1, 1870, the Number of Marriages, and the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1874, and the Per Cent. of Persons Married in 1874 to Population, June 1, 1870.*

COLORS.	SEX.	Population, June 1, 1870, Represented by Marriages in 1874.	Number of Marriages, 1874.	PERSONS MARRIED, 1874.		Per Cent. of Persons Married in 1874 to Popula- tion, June 1, 1870, by Sex and by Color.	Number of Persons who Married those of another Color.
				Number.	Per Cent. of Total Number.		
All Colors.....	Total.....	1,184,282	11,041	22,082	100.00	1.865	34
	Males.....	618,251	.....	11,041	50.00	1.786	17
	Females.....	566,031	.....	11,041	50.00	1.951	17
White	Total.....	1,167,751	10,780	21,582	97.74	1.848	12
	Males.....	609,676	.....	10,801	48.91	1.772	6
	Females.....	558,075	.....	10,781	48.82	1.932	6
Black	Total.....	5,521	99	192	.87	3.478	10
	Males.....	3,047	.....	99	.45	3.249	8
	Females.....	2,474	.....	93	.42	3.759	2
Mulatto.....	Total.....	6,223	18	40	.18	.643	6
	Males.....	3,140	.....	18	.08	.573	1
	Females.....	3,083	.....	22	.10	.714	5
Indian.....	Total.....	4,787	40	81	.37	1.693	6
	Males.....	2,388	.....	40	.18	1.675	2
	Females.....	2,399	.....	41	.19	1.709	4
One or Both Unknown..	Total.....	.....	104	187	.85	.....	.....
	Males.....	.....	.....	83	.38	.....	.....
	Females.....	.....	.....	104	.47	.....	.....
Black and Mulatto.....	Total.....	11,744	117	232	1.05	1.975	16
	Males.....	6,187	.....	117	.53	1.843	9
	Females.....	5,557	.....	115	.52	2.069	7

TABLE V.—CONTINUED.—*Marriages by Color.*

COUNTIES.	Marriages, 1874.	COLOR OF PERSONS MARRIED, 1874, STATED BY COUPLES.					
		White.	Black.	Mulatto.	Indian.	FEMALE UNK.	Un- known.
						Male White.	
Ontonagon.....	14	14	.....	.....	.....	.....	.....
Osceola.....	47	47	.....	.....	.....	.....	.....
Ottawa.....	224	224	.....	.....	.....	.....	.....
Presque Isle.....	10	10	.....	.....	.....	.....	.....
Saginaw.....	379	377	a 2	.....	.....	.....	.....
Sanilac.....	107	107	.....	.....	.....	.....	.....
Schoolcraft.....	6	6	.....	.....	.....	.....	.....
Shiawassee.....	152	152	.....	.....	.....	.....	.....
St. Clair.....	369	351	1	.....	.....	11	b 6
St. Joseph.....	278	278	.....	.....	.....	.....	.....
Tuscola.....	121	c 121	.....	.....	.....	.....	.....
Van Buren.....	257	255	.....	1	1	.....	.....
Washtenaw.....	214	206	d 5	.....	.....	.....	3
Wayne.....	1,023	e 962	e 44	.....	f 1	.....	16
Wexford.....	22	22	.....	.....	.....	.....	.....

a 1 couple, "African." b 1 couple, male "Light complexion," female "Dark complexion." c 1 couple, male white, female mulatto. d 2 couples, "African." e 42 couples, "African;" 2 couples, male "African," female white. f 1 couple male Indian, female white.

Exhibit 1 is similar in plan to the one published for 1873 for the first time, and can only be compared with the corresponding one for 1873. It is designed to show the manner of union by nativities of persons married in Michigan in 1874. The first column at the left on the first line shows that 6,613 native-born females married native-born males; the second column on the first line shows that 816 foreign-born females married native-born males; the third column on the first line shows that 83 females whose nativity was not stated married native-born males; the fourth column shows that 7,512 females of all nativities married native-born males; and the fifth or last column shows that 68.04 per cent. of all the females returned as having been married in 1874 married native-born males. Thus, the second line, containing, from left to right, the foreign-born bridegrooms, is to be similarly read.

The last column of this Exhibit shows that 68.04 per cent. of the females who were married in 1874, married native-born males, against 65.24 in 1873; 30.71 per cent. of all females married in 1874 married foreign-born males, against 33.49 in 1873; and 1.25 per cent. of all females married males of unknown nativity in 1874, against 1.27 per cent. in 1873. The last line of this Exhibit shows that 72.31 per cent. of all the males who were returned as having been married in 1874 married native-born females, against 70.69 per cent. in 1873; 25.73 per cent. of all the males married in 1874 married

foreign-born females, against 27.44 per cent. in 1873; and 1.96 per cent. of all males married females of unknown nativity in 1874 against 1.87 per cent. in 1873.

Another way of stating the teaching of this Exhibit is as follows: The last column shows that 68.04 per cent. of all bridegrooms in 1874 were native-born, 30.71 per cent. were foreign-born, and 1.25 per cent. were of unknown nativity; the last line shows that 72.31 per cent. of all brides in 1874 were native-born, 25.73 per cent. were foreign-born, and 1.96 per cent. were of unknown nativity.

EXHIBIT 1.—*By Nativity, the Number and Per Cent. of Brides and Bridegrooms Returned as having been Married in Michigan during the Year ending December 31, 1874, and, by Number, Manner of their Union, by Nativities.*

		BRIDEGRROOMS, 1874.			BRIDEGRROOMS, 1874.	
		Native.	Foreign.	Un-known.	Totals of each Nativity, and of all Nativities.	Per Cent. of each Nativity.
Bridegrooms..	{ Native.....	6,613	816	83	7,512	68.04
	{ Foreign.....	1,344	2,019	28	3,391	30.71
	{ Unknown.....	27	6	105	138	1.25
Brides.....	{ Whole Number of Each Nativity, and Total	7,984	2,841	216	11,041	-----
	{ Per Cent. of Each Nativity, and Total.....	72.31	25.73	1.96	-----	100.00

Table VI. contains data concerning the marriage-rate among the native and foreign-born inhabitants, and shows the rate among the foreign-born to be very much greater than among the native-born; but it should be borne in mind, (1), that this showing is based upon the number of persons returned as having been married in 1874 and the number of inhabitants in 1870; and (2), that the statement of the number of native-born inhabitants includes the children and youth,—persons not of marriageable ages,—while the foreign-born persons are principally of older ages. The first of these two facts *may* vitiate the statement of the marriage-rate, the second certainly does, by greatly decreasing the statement of the marriage-rate among the native-born.

In order to learn the actual marriage-rate, the number of marriages must be divided by the number of inhabitants *at marriageable ages*, at the time of the occurrence of the marriages; but as we were obliged to use the statement of the population in 1870 with the marriages in 1874, the nearest we can approach the actual marriage-rate for 1874 is that based upon the marriages in 1874 and the inhabitants in 1870 at marriageable ages—15 years and over—as is done in the new Exhibit 2. By this Exhibit it appears that the marriage-rate among the native-born inhabitants was slightly greater than among the foreign-born, in 1874, and that it is greatest among the native-born females, and least among the foreign-born males.

Exhibit 2 is a new one, published this year for the first time, and shows, by

nativity, by sex, the number of inhabitants of Michigan in 1870, aged 15 years and over, the number of persons married in 1874, and the per cent. of persons married in 1874 to inhabitants in 1870, aged 15 years and over. It is a very instructive Exhibit, as showing the marriage-rate among persons of different nativities, and differs from Exhibit C in that Exhibit 2 includes the number of inhabitants aged 45 years and over, and of unknown ages, whereas Exhibit C excludes both.

Exhibit C shows, by nativity, by sex, the number of inhabitants of Michigan, in 1870, aged 15 to 45 years, the number of persons married in 1874, and the per cent. of persons married to inhabitants. It may be seen that the marriage-rate among all nativities appears .97 per cent. greater in this Exhibit than in Exhibit 2, among the native-born, .94 per cent. greater, and among the foreign-born, .97 per cent. greater; that is, including in the statement of the marriage-rate the inhabitants aged over 45 years increases the statement for the foreign-born more than for the native-born. Exhibit 2 is much more satisfactory than Exhibit C or Table VI., as showing the marriage-rate in 1874, because in Exhibit 2 are included the inhabitants at all marriageable ages, approximately.

TABLE VI.—*Exhibiting, by Sex, the Nativity of Persons Returned as having been Married in Michigan during the Year 1874; Number of Inhabitants, June 1, 1870, Represented by Returns of Marriages in 1874; and Per Cent. of Persons Married to Inhabitants of same Nativity.*

NATIVITY.	MARRIAGES, 1874.		POPULATION, JUNE 1, 1870, REPRESENTED BY MARRIAGES IN 1874.			PERSONS MARRIED, 1874.					
	Num- ber.	Per Cent. of Total.	Total.	Males.	Fe- males.	NUMBER.			PER CT. OF PERSONS MARRIED IN 1874 TO POPULATI'N OF SAME NATIVITY, JUNE 1, 1870.		
						Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
Total	11,041	100.00	1,184,282	618,251	566,031	22,082	11,041	11,041	1.87	1.79	1.95
Native	6,613	59.89	918,612	470,644	447,968	15,496	7,512	7,984	1.68	1.59	1.78
Foreign	2,019	18.29	265,670	147,607	118,063	6,232	3,391	2,841	2.34	2.29	2.41
Foreign Male and Na- tive Female	1,344	12.17	-----	-----	-----	-----	-----	-----	-----	-----	-----
Foreign Female and Native Male	816	7.39	-----	-----	-----	-----	-----	-----	-----	-----	-----
One or Both Unknown	249	2.26	-----	-----	-----	354	138	216	-----	-----	-----
One or Both Native..	8,773	79.46	-----	-----	-----	15,496	7,512	7,984	-----	-----	-----
One or Both Foreign..	4,179	37.85	-----	-----	-----	6,232	3,391	2,841	-----	-----	-----

EXHIBIT 2.—*Relation of Marriages in 1874 of Persons of all Nativities, and of those where both Parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 Years and over.*

NATIVITY.	INHABITANTS, JUNE 1, 1870, AGED 15 YEARS AND OVER. ^a			PERSONS MARRIED, 1874.			PER CT. OF PERSONS MARRIED IN 1874 TO INHABITANTS, JUNE 1, 1870, AGED 15 YEARS AND OVER.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities..... ^b	733,268	388,759	344,509	22,062	11,041	11,041	3.01	2.84	3.20
Native.....	505,079	260,377	244,702	15,496	7,512	7,984	3.07	2.89	3.22
Foreign.....	228,189	128,382	99,807	6,232	3,391	2,841	2.73	2.64	2.85

^a From Tables XXIII., XXIV., and XXV., Vital Statistics Volume, Ninth U. S. Census, 1870. Unknown ages included.

^b In the number married, this line includes marriages of "foreign males and native females," "foreign females and native males," and of persons whose nativity was unknown.

EXHIBIT C.—*Relation of Marriages in 1874 of Persons of all Nativities, and of those where both Parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 to 45 Years.*

NATIVITY.	INHABITANTS, JUNE 1, 1870, AGED 15 TO 45 YEARS.			PERSONS MARRIED, 1874.			PER CT. OF PERSONS MARRIED IN 1874 TO INHABITANTS, JUNE 1, 1870, AGED 15 TO 45 YEARS.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities..... ^a	553,352	289,085	266,267	22,062	11,041	11,041	3.98	3.82	4.15
Native.....	387,306	195,765	191,541	15,496	7,512	7,984	4.01	3.84	4.17
Foreign.....	166,046	93,320	74,726	6,232	3,391	2,841	3.70	3.63	3.90

^a In the number married, this line includes marriages of "foreign males and native females," "foreign females and native males," and of persons whose nativity was unknown.

The largest number and proportion of males and of females married in 1874 were aged 21 to 25 years, as shown by Table VII.

The highest marriage-rate for males in 1874 was for those at the ages of 21 to 25 years; and for females the highest rate was for those aged 19 years, for 1873 and 1874. The second highest marriage-rate for males was at the ages of 25 to 30 years, and for females at the age of 18 years. More than one-third of the males, and over one-fourth of the females married in 1874 were aged 21 to 25 years.

TABLE VII.—*By Sex and Periods of Age, the Population, June 1, 1870, represented by Marriages in 1874, and by Sex the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age; the Per Cent. of each Sex at each Age and Period of Age, and the Per Cent. of Persons Married to Population of same Age and Period of Age.*

AGES IN YEARS AND PERIODS.	MARRIAGES, 1874.						POPULATION AT EACH AGE AND PE- RIOD OF AGE, JUNE 1, 1870, REPRE- SENTED BY MAR- RIAGES IN 1874. ^b		PER CENT. OF MARRIAGES TO POPU- LATION OF COR- RESPONDING AGE.		
	Total Number of Persons Married, 1874.	MALES.			FEMALES.						
		Number Married.	Per Ct. of Total Mar- riages.	Per Ct. of each Sex to Total of Both Sexes.	Number Married.	Per Ct. of Total Mar- riages.	Per Ct. of each Sex to Total of Both Sexes.	Males.	Fe- males.	Males.	Fe- males.
All Ages	22,082	11,041	100.00	50.00	11,041	100.00	50.00	377,189	370,266	2.93	2.96
13.....	2				2	.02			13,252		.02
14.....	36				36	.33			12,936		.23
15.....	113				113	1.02			11,715		.96
16.....	636	1	.01	.16	635	5.75	99.84	12,585	12,494	.01	5.06
17.....	945	3	.03	.32	942	8.63	99.68	11,759	11,324	.03	8.32
18.....	1,330	54	.49	4.06	1,276	11.56	93.94	12,489	12,707	.43	10.04
19.....	1,349	214	1.94	15.86	1,135	10.27	84.14	11,504	10,716	1.86	10.59
20.....	1,535	459	4.16	29.90	1,076	9.75	70.10	12,335	12,398	3.72	8.68
21 to 25.....	6,865	4,033	36.52	53.75	2,832	25.65	41.25	47,612	42,841	8.47	6.61
25 to 30.....	4,630	3,247	29.41	70.18	1,383	12.53	29.87	52,878	48,463	6.14	2.85
30 to 35.....	1,755	1,210	10.96	68.95	545	4.94	31.05	43,280	39,977	2.80	1.36
35 to 40.....	948	604	5.47	63.71	344	3.12	36.28	39,975	35,060	1.51	.98
40 to 45.....	554	333	3.02	60.11	221	2.00	89.89	32,729	28,284	1.02	.78
45 to 50.....	418	262	2.37	62.68	156	1.41	37.32	28,181	22,167	.93	.70
50 to 55.....	308	204	1.85	66.23	104	.94	33.77	24,130	18,144	.85	.57
55 to 60.....	193	141	1.28	73.06	52	.47	26.94	16,436	12,567	.96	.41
60 to 65.....	141	102	.92	72.34	39	.35	27.66	13,043	10,600	.78	.37
65 to 70.....	78	56	.51	71.79	22	.20	28.21	8,314	6,581	.67	.33
70 to 75.....	31	27	.24	87.10	4	.04	12.90	5,419	4,212	.50	.09
75 to 80.....	12	11	.10	91.67	1	.01	8.33	2,589	2,145	.42	.05
80 and over...	4	3	.03	75.00	1	.01	25.00	1,719	1,532	.17	.07
Unknown Ages.	199	77	.70	38.69	122	1.10	61.31	212	151	36.33	30.79
Under 15.....	38				38	.35			26,188		.15
15 to 20.....	4,373	272	2.46	6.22	4,101	37.14	93.78	48,337	58,956	.56	6.96
20 to 25.....	8,400	4,492	40.68	53.48	3,908	35.39	46.52	59,947	55,239	7.49	7.07

^a At which marriages occurred.

^b Population at ages at which marriages occurred.

TABLE VIII.—CONTINUED.—*Marriages by Counties, Nativity, and Periods of Age.*

COUNTIES.		Num- ber of Coup- les.	NATIVITY OF PERSONS MARRIED, 1874, STATED BY COUPLES.										MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YEARS.—1874.																	
			Both Na- tive.		Both For- eign.		For- eign Na- tives males.		For- eign Na- tives females.		FEMALES UNKNOWN.		MALES UNKNOWN.		SEX STATED.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and Over.	Unknown.
											Na- tive.	For- eign.	Females.	Males.																
Cass.....	202	175	5	12	6	2	1	1	Males... Females...	9 88	96 76	53 17	19 7	12 7	2 4															
Charlevoix..	23	12	5	4	2				Males... Females...	1 12	8 7	6 1	6 1	4 1	1 1	1 1	1 1	1												
Cheboygan..	20	8	9	1	1				Males... Females...	2 8	6 9	3 1	4 1	4 1																
Chippewa...	6	4	1		1				Males... Females...	3 3	1 1		1 2																	
Clare.....	6	4	1		1				Males... Females...	3 3	2 2	4 1																		
Clinton.....	160	127	6	13	10	1		2	Males... Females...	3 65	71 53	41 20	13 6	8 3	8 2	7 5	3 1	4 1												
Delta.....	38	10	14	10	4				Males... Females...	13 13	17 17	3 5																		
Eaton	223	207	1	10	6	1		1	Males... Females...	6 90	101 75	73 58	14 10	9 8	5 2	7 6	2 2	4 3	2 3	1 1										
Emmet.....	23	18	1	2	2				Males... Females...	2 16	12 4	7 4	1 1	2 1																
Genesee....	314	222	16	46	23	1			Males... Females...	6 124	146 105	78 39	32 18	16 11	7 6	11 4	5 2	4 2	8 2	1 1										
Gr. Traverse	34	22	4	4	3			1	Males... Females...	2 17	9 11	12 6	8 5																	
Gratiot.....	90	66		12	11	1			Males... Females...	2 44	47 32	21 7	7 4	6 3	3 2	1 2	1 2	1 1												
Hillsdale....	404	365	3	16	9	6		1	Males... Females...	17 159	189 141	79 58	43 23	13 9	9 8	9 4	8 2	10 3	4 2											

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

Houghton.....	136	18	94	15	6	1		2	Males.... Females....	54 44	47 15	22 10	6 2	4 1	1 3					3
Huron.....	78	13	43	13	10				Males.... Females....	35 24	27 9	6 2	1 1	2 3			1			
Ingham.....	231	223	8	29	8	5		8	Males.... Females....	123 125	73 77	21 19	7 7	5 4	2 3	6 6	2 1			3
Ionia.....	248	185	21	28	9	3		2	Males.... Females....	94 98	69 33	23 8	9 6	7 7	3 2	5 3	2 2			
Iosco.....	21	4	6	7	4				Males.... Females....	19 8	6 2	1 ---	1 ---	---	---	---				
Isabella.....	50	26	4	13	6			1	Males.... Females....	21 12	11 6	6 2	4 2	2 ---	---	---	1			
Jackson.....	363	259	39	34	25	3	2	1	Males.... Females....	113 116	45 60	28 23	8 4	5 1	2 4	3 2	2 2			1
Kalamazoo...	302	219	24	25	13	8		13	Males.... Females....	115 97	84 37	39 14	11 10	6 3	3 4	2 1	1 1			12 13
Kalkaska.....	9	5	1	2	1				Males.... Females....	1 5	6 ---	1 ---	---	1 ---	---	---				1
Kent.....	520	277	129	67	36	4	2	5	Males.... Females....	194 181	167 67	54 29	34 17	23 13	11 5	5 2	4 1	3 1		1 5
Keweenaw...	35	2	20	6	2		3	1	Males.... Females....	11 5	13 8	6 5	4 2	1 ---	---	---				
Lake.....	14	8	2	1	3				Males.... Females....	2 4	7 1	---	---	1 ---	---	2 1				1 1
Lapeer.....	194	99	31	36	23	1	1	2	Males.... Females....	9 88	51 13	16 8	7 2	8 1	9 2	5 2	1 1	1 2		1
Leelanaw...	42	21	11	8	2				Males.... Females....	3 28	12 ---	7 2	3 1	---	---	1 ---				
Lonawee.....	441	352	32	37	10	5	1	1	Males.... Females....	127 157	45 57	25 23	12 15	9 8	12 5	5 3	5 3	2 1		
Livingston...	151	115	10	13	8	2		1	Males.... Females....	68 64	44 13	6 8	6 4	4 2	1 2	2 1	1 1			
Mackinac....	28	12	7	5	2				Males.... Females....	1 7	6 3	6 3	1 1	1 ---	---	---				4 6
Macomb.....	180	85	50	30	15				Males.... Females....	71 65	52 29	16 11	5 6	5 1	5 3	2 1				1

TABLE VIII.—CONTINUED.—*Marriages by Counties, Nativity, and Periods of Age.*

NATIVITY OF PERSONS MARRIED, 1874, STATED BY COUPLES.				MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YEARS.—1874.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
COUNTIES.	Num-ber of Coup-les.	SEX STATED.				SEX STATED.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		Both Na-tive.		For-eign.		FEMALES UNKNOWN.		MALES UNKNOWN.		Both Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Both Na-tive.	For-eign.	Both Na-tive.	For-eign.	Males.	Females.	Males.	Females.	Na-tive.	For-eign.	Na-tive.	For-eign.	Na-tive.	For-eign.	Na-tive.	For-eign.	Na-tive.	For-eign.	Na-tive.	For-eign.	Na-tive.	For-eign.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Manistee....	67	13	39	6	5	

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

105

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The number of persons returned as having been married in Michigan, in 1874, under the age of twenty-one years, is shown in Table IX., by counties and by sex. By this table it appears that 5,946 persons were married in 1874, under the age of 21 years, against 5,539 in 1873, 5,286 in 1872, 5,425 in 1871, and 4,905 in 1870.

Table IX. also shows the number of persons who were married under the lawful age, according to the returns. By this table and the corresponding ones for previous years, it appears that in 1874 there were 4 boys and 151 girls married who were under the lawful age; in 1873 there were 3 boys and 124 girls; in 1872, 5 boys and 148 girls; in 1871, 9 boys and 150 girls; and in 1870 there were 3 boys and 116 girls who were married before reaching the lawful age for marriage, which is eighteen years for males, and sixteen years for females.

TABLE IX.—*Exhibiting, for the State and Counties, the Total Number, and Number of each Sex under 21 Years of Age; also, the Number of each Sex at each Age under that of Twenty-one Years, returned as having been Married in Michigan during the Year ending December 31, 1874.*

STATE AND COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1874.			AGES OF MALES, 1874.					AGES OF FEMALES, 1874.							
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen.	Seventeen. ^a	Sixteen. ^a	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. ^a	Fourteen. ^a	Thirteen. ^a
STATE.....	5,946	731	5,215	459	214	54	3	1	1,076	1,135	1,276	942	635	113	36	2
Alcona.....	7	.....	7	.....	.....	.....	.....	.....	.....	1	3	1	2	.....	.....	.....
Allegan.....	162	15	147	8	5	2	.....	.....	29	38	33	24	21	2	.....	.....
Alpena.....	28	.....	28	.....	.....	.....	.....	.....	5	7	10	4	2	.....	.....	.....
Antrim.....	18	2	16	2	.....	.....	.....	.....	4	1	2	5	4	.....	.....	.....
Barry.....	109	13	96	8	2	3	.....	.....	22	21	22	11	14	4	2	.....
Bay.....	101	11	90	3	3	5	.....	.....	14	27	18	22	7	1	1	.....
Benzle.....	12	1	11	1	.....	.....	.....	.....	2	2	3	.....	4	.....	.....	.....
Berrien.....	160	19	141	14	5	.....	.....	.....	33	33	37	24	13	.....	1	.....
Branch.....	201	37	164	23	12	2	.....	.....	41	32	41	33	16	1	.....	.....
Calhoun.....	163	25	138	16	8	1	.....	.....	33	30	41	18	15	1	.....	.....
Cass.....	127	19	108	10	7	2	.....	.....	20	25	31	13	17	.....	2	.....
Charlevoix.....	16	2	14	1	1	.....	.....	.....	2	3	1	3	4	1	.....	.....
Cheboygan.....	13	3	10	1	2	.....	.....	.....	2	4	2	2	.....	.....	.....	.....
Chippewa.....	8	.....	3	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....
Clare.....	4	.....	4	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2	.....	.....
Clinton.....	90	10	80	7	3	.....	.....	.....	15	14	16	14	13	5	3	.....
Delta.....	22	2	20	2	.....	.....	.....	.....	7	1	3	5	3	.....	1	.....
Eaton.....	143	23	115	22	5	1	.....	.....	25	25	23	18	18	1	.....	.....

^a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4723), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464, printed also in back part of this Report.

MARRIAGES—PERSONS AGED UNDER TWENTY-ONE YEARS. 107

TABLE IX.—CONTINUED.—*Persons Married under 21 Years of Age.*

COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1874.			AGES OF MALES, 1874.						AGES OF FEMALES, 1874.							
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen. ^a	Seventeen. ^a	Sixteen. ^a		Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen. ^a	Fourteen. ^a	Thirteen. ^a
Emmet.....	23	6	17	4	1	—	1	—		1	—	6	4	5	—	1	—
Genesee.....	178	23	155	17	5	1	—	—		31	35	42	22	21	3	1	—
Grand Traverse..	22	3	19	1	2	—	—	—		2	4	5	4	2	2	—	—
Gratiot.....	66	10	56	8	2	—	—	—		12	8	10	15	10	1	—	—
Hillsdale.....	247	43	204	26	12	5	—	—		45	55	40	35	20	6	3	—
Houghton.....	72	6	66	6	—	—	—	—		12	8	22	15	8	1	—	—
Huron.....	53	5	48	4	1	—	—	—		10	8	6	9	12	3	—	—
Ingham.....	179	28	151	18	8	2	—	—		26	38	35	27	18	5	2	—
Ionia.....	143	23	120	15	8	—	—	—		24	30	26	17	20	3	—	—
Iosco.....	15	3	12	2	1	—	—	—		1	3	3	3	1	1	—	—
Isabella.....	37	5	32	—	4	1	—	—		5	5	2	10	7	2	1	—
Jackson.....	183	18	165	11	7	—	—	—		49	40	39	18	15	2	2	—
Kalamazoo.....	160	30	130	17	9	4	—	—		33	41	23	19	11	3	—	—
Kalkaska.....	5	—	5	—	—	—	—	—		—	3	1	1	—	—	—	—
Kent.....	245	25	220	17	4	4	—	—		39	48	64	44	20	5	—	—
Keweenaw.....	17	2	15	2	—	—	—	—		1	4	4	3	1	1	1	—
Lake.....	9	2	7	—	2	—	—	—		3	—	1	2	1	—	—	—
Lapeer.....	128	21	107	12	7	2	—	—		19	15	28	21	19	5	—	—
Leelanaw.....	36	6	30	3	3	—	—	—		4	9	7	6	3	1	—	—
Lenawee.....	229	28	201	18	7	2	1	—		44	43	45	45	19	4	1	—
Livingston.....	85	8	77	6	2	—	—	—		13	11	23	19	10	1	—	—
Mackinac.....	11	2	9	1	1	—	—	—		2	—	4	—	3	—	—	—
Macomb.....	98	12	86	8	4	—	—	—		21	21	23	13	6	1	—	1
Manistee.....	29	4	25	4	—	—	—	—		3	7	1	8	6	—	—	—
Manitou.....	5	—	5	—	—	—	—	—		1	2	1	—	1	—	—	—
Marquette.....	90	8	82	6	2	—	—	—		8	22	20	14	11	6	1	—
Mason.....	23	1	22	—	—	1	—	—		4	3	3	5	6	—	1	—
Mecosta.....	42	4	38	3	1	—	—	—		8	4	11	7	6	2	—	—
Menominee.....	10	1	9	—	1	—	—	—		1	3	2	—	2	1	—	—
Midland.....	13	1	12	1	—	—	—	—		2	1	3	3	2	1	—	—
Missaukee.....	1	1	—	1	—	—	—	—		—	—	—	—	—	—	—	—
Monroe.....	144	20	124	12	7	1	—	—		26	25	31	25	15	2	—	—
Montcalm.....	109	14	95	10	2	2	—	—		10	19	17	27	18	3	1	—
Muskegon.....	72	5	67	—	4	1	—	—		16	13	15	13	7	3	—	—

^a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4723), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464, printed also in back part of this Report.

TABLE IX.—CONTINUED.—*Persons Married under 21 Years of Age.*

COUNTIES.	PERSONS MARRIED UNDER 21 YEARS OF AGE, 1874.			AGES OF MALES, 1874.						AGES OF FEMALES, 1874.							
	Total.	Males.	Fe-males.	Twenty.	Nineteen.	Eighteen.	Seventeen. ^a	Sixteen. ^a		Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen. ^a	Thirteen. ^a
Newaygo.....	50	4	46	1	2	1	—	—	7	8	7	13	8	3	—	—	—
Oakland.....	133	19	114	11	7	1	—	—	26	26	32	20	9	1	—	—	—
Oceana.....	47	3	44	3	—	—	—	—	6	3	8	15	8	2	2	—	—
Ontonagon.....	10	—	10	—	—	—	—	—	3	3	—	3	—	1	—	—	—
Osceola.....	29	1	28	—	1	—	—	—	2	3	4	10	7	—	2	—	—
Ottawa.....	120	13	107	8	3	—	1	1	22	25	32	17	9	1	—	—	1
Presque Isle.....	3	1	2	—	1	—	—	—	—	—	1	1	—	—	—	—	—
Saginaw.....	189	16	173	9	6	1	—	—	38	31	38	28	27	7	4	—	—
Sanilac.....	77	9	68	3	4	2	—	—	11	17	13	12	10	5	—	—	—
Schoolcraft.....	7	2	5	1	1	—	—	—	—	—	3	1	1	—	—	—	—
Shiawassee.....	85	9	76	6	2	1	—	—	16	18	13	17	11	—	1	—	—
St. Clair.....	192	14	178	6	8	—	—	—	47	30	41	35	21	3	1	—	—
St. Joseph.....	137	16	121	12	1	3	—	—	24	32	35	19	10	1	—	—	—
Tuscola.....	86	2	84	2	—	—	—	—	10	10	25	22	14	3	—	—	—
Van Buren.....	150	19	131	13	5	1	—	—	18	34	41	20	18	—	—	—	—
Washtenaw.....	94	10	84	8	2	—	—	—	23	18	26	8	4	—	—	—	—
Wayne.....	367	36	331	25	10	1	—	—	86	83	97	47	17	—	1	—	—
Wexford.....	12	2	10	—	1	1	—	—	1	2	2	3	2	—	—	—	—

^a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4721), and (4722), Compiled Laws of 1871, pages 1462, 1463, and 1464, printed also in back part of this Report.

MANNER OF UNION BY AGES.

The last column but one of Table X. shows the number of males married at the different periods of age; and the next to the bottom line of the table shows the number of females married at the different periods of age. The table is interpreted as follows: The 272 males who were married under 20 years of age, as shown in the next to the last column, married 225 females aged under 20 years, 41 aged 20 to 25 years, 3 aged 25 to 30 years, 2 aged 30 to 35 years, and 1 whose age was not returned,—272 in all; and so for each number in the column headed "Total Males" the females are distributed throughout the table to the left on the same line. The 4,139 females who were married under 20 years of age, as shown in the second line from the bottom, in the first column after "Total Females," married 225 males under 20 years of age, 2,442 aged 20 to 25 years, 1,145 aged 25 to 30 years, 230 aged 30 to 35 years, 56 aged 35 to 40 years, 17 aged 40 to 45 years, 8 aged 45 to 50 years, 7 aged 50 to 55 years, 1 aged 55 to 60 years, 2 aged 65 to 70 years, 2 aged 70 to 75 years, 1 aged 75 to 80 years, and 3 whose ages were not returned,—4,139 in all; and so for each number on the line of "Total Females" the males are

distributed along in the respective columns, opposite the respective ages of the males, as shown in the left-hand column of the table.

TABLE X.—*Exhibiting the Number of each Sex at each Period of Age who were Married in Michigan during the Year 1874; the Number of each Sex at each Period of Age who were United to the Opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at all Ages.*

AGES OF MALES, 1874.	AGES OF FEMALES, 1874.																Total Males.	Per Cent. of Grooms at Each Age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and Over.	Unk.			
Under 20.....	225	41	3	2	---	---	---	---	---	---	---	---	---	---	1	273	2.48	
20 to 25.....	2,442	1,760	240	27	3	3	1	---	---	---	---	1	---	---	15	4,493	40.08	
25 to 30.....	1,145	1,415	530	86	32	11	5	1	---	---	---	---	---	---	24	3,247	29.41	
30 to 35.....	230	428	317	167	40	16	5	2	2	---	---	---	---	---	3	1,310	10.96	
35 to 40.....	56	174	145	112	76	26	11	1	---	1	---	---	---	---	2	604	5.47	
40 to 45.....	17	53	77	57	64	43	15	5	1	1	---	---	---	---	---	333	3.02	
45 to 50.....	8	23	37	45	57	43	31	12	3	---	1	---	---	1	1	262	2.37	
50 to 55.....	7	6	22	27	38	41	29	24	7	2	---	---	---	---	1	204	1.85	
55 to 60.....	1	7	7	16	16	19	27	25	13	8	2	---	---	---	---	141	1.28	
60 to 65.....	---	1	5	5	14	12	20	22	8	12	3	---	---	---	---	102	.93	
65 to 70.....	2	2	---	1	2	4	9	8	11	9	6	2	---	---	---	56	.51	
70 to 75.....	2	---	---	---	2	3	3	3	4	4	5	---	---	---	1	27	.24	
75 to 80.....	1	---	---	---	---	---	---	1	1	2	4	1	1	---	---	11	.10	
80 and Over..	---	---	---	---	---	---	---	---	2	---	1	---	---	---	---	3	.03	
Unknown....	3	---	---	---	---	---	---	---	---	---	---	---	---	---	74	77	.70	
Total Females..	4,139	3,908	1,383	545	344	221	156	104	52	39	22	4	1	1	122	11,041	-----	
Per Ct. of Brides at each Age..	37.49	35.39	12.53	4.94	3.12	2.00	1.41	.94	.47	.35	.20	.04	.01	.01	1.10	-----	100.00	

GREAT DIFFERENCES IN AGES OF PERSONS MARRIED.

Table XI. contains data concerning certain marriages in 1874, in some of the counties, with unusual disparity between the ages of the two persons thus united. The couple between whose respective ages there was the greatest disparity, according to the returns, was married in Berrien county, where the bridegroom was 76 years of age, and the bride only 18 years,—a disparity of 58 years; the greatest disparity among those cases in which the bride was the older of the two appears for Saginaw county, the bridegroom being only 23 years of age, whereas the bride was 70 years of age,—a disparity of 47 years. The greatest in 1873 was 59 years, in Jackson county; in 1872 the greatest disparity was 55 years, in Benzie county; and in 1871 the greatest disparity was 55 years, in Hillsdale county.

TABLE XI.—*Marriages with great Disparity of Ages of Persons Married in Michigan during the Year ending December 31, 1874.*

COUNTIES.	BRIDEGROOM OLDEST.—1874.			BRIDE OLDEST.—1874.		
	OCCUPATION OF BRIDEGROOM.	Age of Bridegroom.	Age of Bride.	OCCUPATION OF BRIDEGROOM.	Age of Bridegroom.	Age of Bride.
Allegan.....	Agent.....	55	17	Farmer.....	29	43
Antrim.....	Lumberman.....	40	21	.....	.....	.....
Barry.....	Farmer.....	44	20	Farmer.....	37	63
Bay.....	Manufacturer of } Potash..... }	43	22	Laborer.....	21	40
Benzie.....	Farmer.....	71	16	.....	.....	.....
Berrien.....	Farmer.....	76	18	Farmer.....	21	38
Branch.....	Physician.....	55	20	.....	.....	.....
Calhoun.....	Farmer.....	68	35	.....	.....	.....
Cass.....	Farmer.....	50	19	.....	.....	.....
Clinton.....	Shoemaker.....	44	21	.....	.....	.....
Eaton.....	Farmer.....	45	22	Farmer.....	25	52
Emmet.....	Farmer.....	a 63	a 36	.....	.....	.....
Genesee.....	Farmer.....	45	16	.....	.....	.....
Grand Traverse.....	Farmer.....	51	18	.....	.....	.....
Gratiot.....	Farmer and Car- } penter & Joiner. }	42	19	.....	.....	.....
Huron.....	Laborer.....	50	28	Farmer.....	32	53
Ingham.....	{ Farmer..... Farmer..... }	43 66	15 24	.....	.....	.....
Ionia.....	Carpenter.....	56	25	.....	.....	.....
Isabella.....	Farmer.....	34	14	.....	.....	.....
Jackson.....	Farmer.....	66	14	.....	.....	.....
Kalamazoo.....	Blacksmith.....	72	19	Laborer.....	b 30	b 45
Kent.....	Farmer.....	66	15	Mechanic.....	27	45
Lake.....	Farmer.....	63	36	.....	.....	.....
Lapeer.....	Farmer.....	50	21	Farmer.....	48	65
Lenawee.....	Banker.....	54	20	Farmer.....	34	56
Livingston.....	Farmer.....	57	26	.....	.....	.....
Macomb.....	Farmer.....	42	19	Farmer.....	21	46
Manistee.....	Civil Engineer.....	50	16	.....	.....	.....
Marquette.....	Machinist.....	51	28	Laborer.....	24	40
Mason.....	Carpenter.....	55	33	.....	.....	.....
Mecosta.....	Laborer.....	44	18	Farmer.....	34	50
Midland.....	Editor.....	44	17	.....	.....	.....
Monroe.....	Farmer.....	53	16	.....	.....	.....
Montcalm.....	Physician.....	74	43	.....	.....	.....
Muskegon.....	Farmer.....	56	24	Fireman.....	30	45
Newaygo.....	Farmer.....	53	15	.....	.....	.....
Oakland.....	Farmer.....	51	29	.....	.....	.....
Oceana.....	Merchant and Man- } ufacturer..... }	59	23	.....	.....	.....
Ontonagon.....	Farmer.....	42	16	.....	.....	.....
Ottawa.....	Lumberman.....	41	18	.....	.....	.....
Saginaw.....	Carpenter.....	42	15	Lumberman.....	23	70
Sanilac.....	Mechanic.....	43	19	Farmer.....	43	60
Shiawassee.....	Farmer.....	73	46	.....	.....	.....
St. Clair.....	Sailor.....	52	16	Farmer.....	26	41
St. Joseph.....	Farmer.....	47	19	.....	.....	.....
Tuscola.....	Farmer.....	39	15	.....	.....	.....
Van Buren.....	Laborer.....	40	22	Farmer.....	30	45
Washtenaw.....	Farmer.....	51	24	Farmer.....	32	56
Wayne.....	Liquor Dealer.....	69	21	Farmer.....	46	81
Wexford.....	Farmer.....	49	22	Laborer.....	27	40

a Indian. b "African."

TABLE XII.—Exhibiting, for the State and Counties, the Number of Marriages in Michigan during the Years 1873 and 1874 as first Returned to the State Department; the Number Solemnized during the Years 1868, 1869, 1870, 1871, 1872, and 1873 returned previous to March 15, 1876; the Number Solemnized during the Years 1871 and 1872 returned previous to May 1, 1875, and since May 1, 1875, previous to March 15, 1876; the Population, 1874; Number of Inhabitants in 1874 to one Marriage in 1874; and the Per Cent. of Marriages in 1874 to Population in 1874.

STATE AND COUNTIES.	MARRIAGES.												Population, 1874, Reported by Returns of Marriages for 1874.	Number of Inhabitants in 1874 to one Marriage in 1874.	Per Cent. of Marriages in 1874 to Population in 1874.	
	1868.	1869.	1870.	1871.		1872.		1873.		1874.						
	Number returned previous to Mar. 15, 1876.	Number returned previous to Mar. 15, 1876.	Number returned previous to Mar. 15, 1876.	Number returned previous to May 1, 1875.	Number returned previous to May 15, 1876.	Number returned previous to May 1, 1875.	Number returned previous to May 15, 1876.	Number returned previous to May 1, 1875.	Number returned previous to May 15, 1876.	Number returned.						
STATE.....	8,697	10,392	9,773	10,628	49	10,577	10,537	141	10,678	10,574	1,168	11,743	11,041	1,384,031	121	.83
Alcona.....	.....	8	16	4	5	9	8	.....	8	4	3	7	10	1,214	121	.82
Allegan.....	239	260	278	215	.....	215	251	.....	251	242	8	250	277	32,381	117	.86
Alpena.....	24	44	8	31	.....	31	53	.....	53	49	.....	42	58	4,807	83	1.21
Antrim.....	15	14	16	18	.....	18	20	.....	20	42	.....	42	30	8,240	108	.93
Barry.....	148	168	173	156	.....	156	166	.....	166	184	1	135	176	22,051	125	.80
Bay.....	125	138	126	118	2	120	175	.....	175	150	4	154	203	24,832	122	.82
Benzie.....	.....	12	18	17	1	18	14	.....	14	23	1	24	17	2,663	157	.64
Berrien.....	419	303	365	398	.....	398	447	1	448	329	103	432	304	35,029	115	.87
Branch.....	264	275	273	269	.....	269	283	7	259	232	3	235	309	25,736	83	1.20
Calhoun.....	233	278	291	276	.....	276	355	.....	355	283	9	292	341	35,655	104	.96
Cass.....	224	187	199	200	5	205	206	.....	211	204	22	228	202	20,525	102	.98
Charlevoix.....	.....	6	18	18	.....	18	19	.....	19	17	.....	17	23	2,360	12	.97

* Includes population of Otsego county.

TABLE XII.—CONTINUED.—*Marriages Corrected by Counties.*

COUNTIES.	MARRIAGES.												Popula- tion, 1874, Exclu- sive of Mar- riages for 1874.	Number of in- habits in 1874 to one Mar- riage in 1874.	Per Ct. of Mar- riages in 1874 to Popula- tion in 1874.
	1868.	1869.	1870.	1871.		1872.		1873.		1874.					
	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed since May 1, 1875.	Number return- ed since May 1, 1875.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed since first com- pila- tion.	Num- ber re- turned.				
Cheboygan.....	9	15	14	21	.....	.....	7	23	.....	23	20	3,070	153	.65
Chippewa.....	.....	13	13	11	.....	.....	7	10	.....	10	6	2,170	362	.28
Clare.....	.....	.....	.....	13	.....	.....	8	15	.....	15	6	1,354	228	.44
Clinton.....	191	218	181	176	1	177	162	144	53	197	160	28,661	148	.68	
Delta.....	15	6	21	15	.....	.....	21	24	.....	47	38	4,741	125	.80
Eaton.....	161	199	214	227	.....	.....	240	179	33	214	228	26,907	118	.85
Emmet.....	15	13	11	14	.....	.....	9	5	.....	5	23	1,272	55	1.80
Genesee.....	277	343	324	293	.....	.....	298	3	291	309	314	34,568	110	.91
Grand Traverse.....	52	36	20	33	.....	.....	33	31	.....	1	34	5,349	157	.64
Gratiot.....	85	90	77	111	1	112	84	6	90	121	90	13,886	154	.65	
Hillsdale.....	277	330	325	324	.....	.....	355	2	357	308	404	31,566	78	1.36
Houghton.....	74	72	25	90	.....	.....	106	191	.....	191	136	19,080	140	.71
Huron.....	48	67	72	63	.....	.....	87	90	.....	.....	78	11,964	153	.65
Ingham.....	120	229	215	239	.....	.....	239	9	227	269	231	29,193	104	.96
Ionis.....	239	249	221	252	11	263	259	9	268	292	248	26,376	114	.87	
Iosco.....	13	14	28	44	.....	.....	46	46	.....	2	48	4,782	227	.44
Isabella.....	49	32	37	39	.....	.....	42	2	31	7	50	6,069	131	.83
Jackson.....	269	354	342	330	312	281	40	363	37,968	105	.96	

MARRIAGES—CORRECTED BY COUNTIES.

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Kalamazoo.....	300	335	334	314	1	315	345	1	346	290	7	297	303	32,284	107	.94
Kalkaska.....	3	3	5	5	4	4	9	1,259	140	.71
Kent.....	401	528	426	493	.....	493	556	.....	556	588	14	603	520	62,671	121	.83
Keweenaw.....	.....	.....	.....	.....	.....	.....	1	.....	1	26	.....	26	35	c 5,415	155	.65
Lake.....	.....	.....	.....	.....	.....	.....	8	.....	8	11	.....	11	14	1,813	130	.77
Lapeer.....	140	173	185	159	.....	159	160	2	163	187	1	188	194	25,140	130	.77
Leelanaw.....	46	43	29	45	.....	45	31	.....	31	42	2	44	42	5,031	120	.83
Lenawee.....	424	484	422	435	.....	435	454	3	457	454	30	484	441	46,084	104	.96
Livingston.....	142	142	116	148	.....	148	160	.....	160	134	.....	134	151	20,329	135	.74
Mackinac.....	15	13	17	.....	3	3	.....	14	14	6	2	.....	28	1,496	57	1.07
Macomb.....	185	217	208	231	.....	231	158	.....	158	200	7	207	180	28,305	157	.64
Manistee.....	28	83	84	85	.....	85	51	.....	51	97	13	110	67	8,471	126	.79
Manitou.....	.....	.....	.....	4	.....	4	3	.....	3	2	.....	2	8	657	82	1.20
Marquette.....	45	81	145	145	.....	145	194	4	198	267	17	284	206	21,946	107	.94
Mason.....	23	27	26	36	.....	36	30	.....	30	41	.....	41	37	5,361	145	.69
Mecosta.....	58	82	56	62	.....	62	85	.....	85	96	.....	95	87	9,132	105	.95
Menominee.....	13	11	4	9	.....	9	17	.....	17	22	.....	22	19	3,490	184	.54
Midland.....	28	27	31	26	.....	26	33	.....	33	49	1	50	23	d 5,306	231	.43
Missaukee.....	.....	.....	1	1	.....	1	4	.....	4	4	.....	4	2	606	303	.33
Monroe.....	148	229	223	227	8	235	204	6	210	236	12	248	246	30,111	122	.82
Montcalm.....	80	96	90	125	.....	125	140	.....	140	171	6	177	165	20,815	136	.79
Muskegon.....	71	153	101	132	.....	132	164	4	168	187	2	189	158	19,375	123	.82
Newsygo.....	54	53	59	66	.....	66	69	.....	69	81	.....	81	86	8,758	102	.93
Oakland.....	208	335	321	350	.....	350	300	3	303	239	15	254	273	38,082	139	.72
Oceana.....	81	79	61	60	.....	60	52	4	56	31	12	43	77	8,860	100	.92

a Includes population of Baraga county.

b Includes population of Ogemaw county.

c Includes population of Isle Royal county.

d Includes population of Gladwin and Roscommon counties.

TABLE XII.—CONTINUED.—Marriages, Number Corrected by Counties.

COUNTIES.	MARRIAGES.												Popula- tion, 1874, Repre- sented by Returns of Mar- riages for 1874.	Number of In- habits in 1874 to one Mar- riage in 1874.	Per Ct. of Mar- riages in 1874 to Popula- tion in 1874.		
	1868.		1869.		1870.		1871.		1872.		1873.					1874.	
	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed previ- ous to May 1, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Number return- ed previ- ous to Mar. 15, 1876.	Num- ber re- turned.					
Ontonagon.....	13	15	11	6	12	6	12	12	12	21	1	22	14	2,406	172	.58	
Oscoda.....	.....	15	14	31	47	31	47	47	47	62	.....	62	47	6,216	132	.76
Ottawa.....	207	215	187	204	190	204	190	190	190	238	.....	238	224	29,929	134	.75
Presque Isle.....	.....	.....	.....	.....	4	.....	4	1	5	7	.....	7	10	1,615	162	.62
Saginaw.....	153	188	310	389	455	389	455	10	465	428	4	432	379	48,409	128	.78	
Sanilac.....	92	107	100	112	116	112	116	1	117	89	22	111	107	16,292	152	.65	
Schoolcraft.....	.....	.....	2	.....	5	.....	5	.....	5	8	.....	8	6	1,290	215	.48
Shiawassee.....	168	171	124	154	132	163	132	3	135	116	39	155	152	21,773	143	.70	
St. Clair.....	245	251	308	339	329	339	329	3	342	290	63	353	369	40,688	110	.91	
St. Joseph.....	290	312	236	330	268	330	268	.....	268	276	4	280	278	25,906	93	1.07
Tuscola.....	77	75	101	114	131	114	131	.....	131	121	12	133	121	16,998	140	.71
Van Buren.....	227	224	213	226	233	227	233	5	238	261	18	279	257	29,156	113	.88	
Washtenaw.....	267	264	324	309	325	309	325	.....	325	234	63	297	214	88,723	181	.55
Wayne.....	793	1,154	979	1,145	771	1,145	771	9	780	932	291	1,223	1,022	144,903	142	.70	
Wexford.....	.....	4	5	9	10	.....	10	.....	10	30	.....	30	22	3,011	136	.73

EXHIBIT D.—*Number of Inhabitants to one Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The statements for Michigan include only the Inhabitants of Counties represented by Returns of Marriages.*

COUNTRY, STATE, OR CITY.	Year for which the statement is made.	Inhabitants to one Marriage Annually.	COUNTRY, STATE, OR CITY.	Year for which the statement is made.	Inhabitants to one Marriage Annually.
Austria.....		117	Minnesota..... ^a	1870	116
Bavaria.....		100	Massachusetts..... ^b	1870	99
Belgium.....		122	Massachusetts..... ^b	1871	95
Denmark.....		129	Massachusetts..... ^b	1872	95
England.....		122	Massachusetts..... ^b	1873	96
Finland.....		141	Massachusetts..... ^b	1874	103
France.....		122	New Jersey..... ^c	1870	135
Greece.....		174	New York City..... ^d	1869	108
Holland.....		129	New York City..... ^e	1870	118
Norway.....		124	Michigan..... ^{f,g}	1869	109
Prussia.....		106	Michigan..... ^f	1870	120
Russia.....		111	Michigan..... ^{f,g}	1871	117
Saxony.....		107	Michigan..... ^{f,g}	1872	122
Spain.....		141	Michigan..... ^{f,g}	1873	116
Sweden.....		135	Michigan..... ^g	1874	129
United States.....	1860	123	Michigan..... ^h	1874	121
New York.....	1860	135			
Massachusetts.....	1865	97			
Ohio.....		105			
Minnesota.....	1860	110			
Minnesota.....	1868	107			

^a Taken from Statistics of Minnesota for 1870.

^b Taken from Registration Report of Massachusetts for 1875, page 27.

^c There were 16 townships from which no returns of marriages were received. Computed from data in Registration Report of New Jersey for 1870.

^d Computed from data in Report of Metropolitan Board of Health for 1869.

^e Computed from data in Report of Board of Health, of Health Department, for 1870.

^f Marriages corrected, for additional returns, up to March 15, 1876.

^g Population estimated from Censuses of 1860 and 1870.

^h Population as per Census of Michigan, 1874.

DEATHS.

The returns of deaths for the year 1874 show that 12,500 persons died in Michigan during the year. This is 1,758 less than were returned for 1873, 871 less than were returned for 1872, 2,772 more than for 1871, 1,734 more than for 1870, 3,355 more than for 1869, and 4,265 more than were returned for 1868.

Applying the method of correction, used in previous Reports, for omissions in the enumeration because of the long time elapsing between the occurrence of the deaths and the enumeration, it is found that it is necessary to increase the number of deaths returned for 1874 by about 60.94 per cent. in order to obtain the number of deaths which probably occurred, according to that evidence. According to similar methods, the per cent. of increase for 1873 was 42.67; for 1872 the per cent. was 57.94; for 1871 the per cent. was 61.98. It thus appears that the per cent. necessary to be added for 1871 was greater than for 1874, but for 1872 and 1873 the per cent. was less than for 1874. The per cent. for 1874 was very much greater than for 1873; that is, judging from this system of correction, there were many more deaths omitted in the enumeration for 1874 than for 1873. On page 1 of this Report a similar fact was mentioned in regard to births, viz.: that the per cent. necessary to increase the number returned in order to equal the number which probably occurred is very much greater for 1874 than for 1873. There is not so much difference, however, between the per cent. necessary to increase the deaths for 1873 and for 1874, as between the per cent. necessary to increase the births for the same years. The average annual per cent. of increase required by this correction for the four years 1871-1874 was 55.88, which is not very much different from that shown for the year 1874. It is probable that the actual death-rate was less in 1874 than in 1873, and that the number shown by our system of correction as probably having occurred in 1874 is too large, because based upon an assumed relation between the numbers for December, 1873, and January, 1874, whereas any unusual death-rate in either of those months might vitiate the correction based upon them. Using the average annual per cent. for the four years 1871-1874 (55.88) we obtain 19,485 as the probable number of deaths which actually occurred in 1874,—only 633 less than the number found by using the average annual per cent. according to Exhibit C.

The averages for certain specified periods of time, including unknown month, are as follows:

DEATHS BY QUARTERS OF THE YEAR.

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Periods of Time.	As Returned.	Corrected as per Exhibit C, 4th line.	Corrected with 55.88 per cent.
Average number per quarter.....	3,125.00	5,029.50	4,871.25
Average number per month.....	1,041.67	1,676.50	1,623.75
Average number per week.....	240.38	386.88	374.71
Average number per day.....	34.25	55.12	53.38

Table I. shows the number and per cent. of deaths, by quarters, for each of the years 1869-1874. The largest number and proportion of deaths are returned for the quarter ending with September, for each year exhibited in the table, the next largest being for the quarter ending with December; but this last showing is probably caused by the fact that less time elapses between the occurrence and the enumeration of the deaths during the last quarter of the year than elapses between the occurrence and the enumeration of the deaths in the fore part of the year; for, if we refer to Exhibit C, following, we find that, when the deaths are corrected for omissions in the enumeration caused by the time elapsing between their occurrence and their enumeration, the greatest proportion is shown for the quarter ending with September, and the next greatest for the quarter ending with June, instead of December, as in Table I.

TABLE I.—Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total Returned for each of the Years 1869 to 1874, inclusive.

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1869.		1870.		1871.		1872.		1873.		1874.	
	Num-ber.	Per Ct. of Total.	Num-ber.	Per Ct. of Total.	Num-ber.	Per Ct. of Total.	Num-ber.	Per Ct. of Total.	Num-ber.	Per Ct. of Total.	Num-ber.	Per Ct. of Total.
Totals.....	9,145	100.00	10,766	100.00	9,738	100.00	13,371	100.00	14,256	100.00	12,500	100.00
March.....	1,758	19.22	1,696	15.77	1,868	19.41	2,299	17.19	3,211	22.52	2,246	17.97
June.....	1,994	21.80	2,131	19.79	2,097	21.55	2,934	21.94	3,335	23.39	3,089	24.31
September...	2,949	32.24	3,930	36.41	2,926	30.06	4,441	33.21	4,182	29.33	3,570	28.56
December....	2,396	26.30	2,992	27.79	2,760	28.37	3,667	27.43	3,461	24.28	3,299	26.39
Unknown....	48	.52	35	.32	57	.58	30	.22	69	.48	46	.37
Average.....	2,296.25	25.00	2,691.50	25.00	2,432.00	25.00	3,342.75	25.00	3,564.50	25.00	3,125.00	25.00

Table II. contains the number, and per cent. of total deaths, by months, for each of the years 1868-1874, the months arranged in order by number of deaths, the greatest number first. In 1868, 1869, and 1874, September heads the list, and in each of the other years August has the greatest number. The deaths seem to have been more evenly distributed throughout the year in 1874 and 1870 than in any other year, six of the twelve months having more than the monthly average proportion of deaths. If the deaths were corrected for omissions in the enumeration, the order of the months would probably be changed.

VITAL STATISTICS OF MICHIGAN, 1874.

TABLE II.—Deaths in Michigan, by Months, Exhibiting the Number and Per Cent. of Total Returned for each of the Years 1868 to 1874, inclusive, the Months arranged in Order by Number of Deaths, the greatest Number first.

	1868.			1869.			1870.			1871.			1872.			1873.			1874.		
	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.	Year and Month.	Num-ber.	Per Ct. of Total.
1	Year.....	8,235	100.00	Year.....	9,145	100.00	Year.....	10,796	100.00	Year.....	9,728	100.00	Year.....	13,571	100.00	Year.....	14,253	100.00	Year.....	12,500	100.00
2	Sept.....	1,041	12.51	Sept.....	1,194	13.05	Aug....	1,473	13.59	Aug....	1,063	11.13	Aug....	1,788	13.00	Aug....	1,535	10.77	Sept....	1,517	12.14
3	Aug.....	983	11.93	Aug.....	1,068	11.60	Sept....	1,263	12.66	Sept....	1,055	10.84	Sept....	1,663	12.36	Sept....	1,471	10.32	Aug....	1,398	11.10
4	Oct.....	778	9.43	Oct.....	874	9.55	Oct....	1,132	10.51	Dec....	1,029	10.58	Oct....	1,321	9.88	Oct....	1,258	8.88	Oct....	1,211	9.69
5	July.....	747	9.07	Dec.....	836	9.14	July....	1,064	10.06	Oct....	933	9.59	Dec....	1,288	9.63	March..	1,248	8.76	Dec....	1,120	8.96
6	March....	690	8.13	March....	761	8.32	Nov....	933	8.66	Nov....	799	8.20	April..	1,140	8.53	July....	1,176	8.25	April..	1,102	8.81
7	Dec.....	688	8.11	April....	712	7.78	Dec....	927	8.61	July....	788	8.10	Nov....	1,068	7.91	April..	1,174	8.23	May....	1,071	8.57
8	Nov.....	602	7.31	July.....	687	7.51	June....	754	7.00	March..	781	8.03	July....	1,050	7.85	Dec....	1,136	7.97	Nov....	968	7.74
9	Feb.....	583	7.07	Nov.....	696	7.50	March..	724	6.73	May....	750	7.71	May....	979	7.32	May....	1,121	7.87	July....	965	7.72
10	April....	563	7.07	May.....	652	7.13	May....	689	6.39	April..	721	7.41	March..	941	7.04	Feb....	1,104	7.74	March..	919	7.35
11	Jan.....	535	6.49	June.....	630	6.89	April..	678	6.29	June....	626	6.43	June....	815	6.10	Nov....	1,067	7.49	June....	866	6.93
12	May.....	503	6.10	Feb.....	561	6.13	Feb....	553	5.13	Feb....	578	5.94	Feb....	756	5.65	June....	1,040	7.30	Feb....	672	5.38
13	June.....	592	5.85	Jan.....	436	4.77	Jan....	421	3.91	Jan....	529	5.44	Jan....	603	4.50	Jan....	839	6.04	Jan....	655	5.24
Unk.....	Unk.....	63	.76	Unk.....	49	.52	Unk....	35	.33	Unk....	57	.59	Unk....	30	.02	Unk....	69	.48	Unk....	46	.37
Average.	Average.	688.25	8.33	Average.	762.06	8.33	Average.	897.16	8.33	Average.	810.66	8.33	Average.	1,114.25	8.33	Average.	1,188.17	8.33	Average.	1,041.67	8.33

*The number of deaths for April, 1868, is increased by one-fifth of the number published in the Second Registration Report, for the reason that the first five days of that month were not included in that Report. The number for the last twenty-five days was 486; 486 ÷ 5 = 97; 486 + 97 = 583 = estimated number of deaths for April, 1868.

Table III. shows, by months, the number of deaths in 1874, by sex of decedents, the excess of males, and the number of males to 100 females. The greatest excess of males was in April, the least in January. Six out of the twelve months had more than the average excess and proportion of males.

TABLE III.—*Number and Per Cent. of Deaths of Males and of Females from All Causes, as Returned, by Months. (Unknown Sex Excluded.)*

YEAR AND MONTHS.	NUMBER OF DEATHS AS RETURNED, 1874.		PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.			Males to 100 Fe- males.
	Males.	Females.	Males.	Females.	Excess of Males.	
Year, 1874.....	6,665	5,804	53.45	46.55	6.90	114.8
January.....	335	320	51.15	48.85	2.30	104.7
February.....	349	319	52.25	47.75	4.50	109.4
March.....	500	416	54.59	45.41	9.18	120.1
April.....	606	496	54.99	45.01	9.98	122.2
May.....	551	518	51.54	48.46	3.08	106.4
June.....	471	395	54.39	45.61	8.78	119.2
July.....	524	435	54.64	45.36	9.28	120.5
August.....	736	651	53.06	46.94	6.12	112.1
September.....	802	711	53.01	46.99	6.02	112.8
October.....	640	567	53.02	46.98	6.04	112.9
November.....	517	448	53.58	46.42	7.16	115.4
December.....	606	510	54.30	45.70	8.60	118.8
Unknown.....	28	18	60.87	39.13	21.74	155.6

Exhibit A contains data concerning the deaths in 1874, by sex and by months equalized to uniform length. The greatest proportion of deaths were returned for September, the smallest for January.

Exhibit C contains statements of the deaths, by months, as returned, and as corrected for omissions in the enumeration and for increase of population, and equalized to months of uniform length; it also indicates the method of the correction.

The data in this exhibit and similar exhibits for previous years, are graphically represented in Diagram No. 3, page 123. The line for 1872 is the highest in August and September, and the first prominent rise in the lines for 1872 and 1874 is in April. The first prominent rise of the line for 1873 is in February.

EXHIBIT A.—*Decedents of each Sex, and Total Number of Deaths, in Michigan during the Year 1874, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.*

YEAR AND MONTHS.	NUMBER OF DEATHS IN 1874 AS RETURNED, EQUALIZED.				PER CT. OF DEATHS IN EACH MONTH TO TOTAL DURING THE YEAR.				PER CT. OF EACH SEX TO TOTAL OF BOTH SEXES, UNKNOWN EXCLUDED.		
	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe- males.	Un- known.	Males.	Fe- males.	Excess of Males.
Year, 1874....	12,491	6,660	5,800	81	100.00	100.00	100.00	100.00	53.45	46.55	6.90
January....	643	329	314	.....	5.15	4.94	5.41	.....	51.17	48.83	2.34
February....	730	379	347	4	5.84	5.60	5.98	12.90	52.20	47.80	4.40
March.....	902	491	408	3	7.22	7.37	7.03	9.68	54.02	45.98	9.04
April.....	1,118	615	503	.....	8.96	9.23	8.67	.....	55.01	44.99	10.02
May.....	1,062	541	509	2	8.42	8.12	8.78	6.46	51.52	48.48	3.04
June.....	879	478	401	.....	7.04	7.18	6.91	.....	54.38	45.62	8.76
July.....	948	515	427	6	7.59	7.73	7.36	19.38	54.67	45.33	9.34
August.....	1,363	723	639	1	10.91	10.86	11.02	3.23	53.08	46.92	6.16
September..	1,539	813	722	4	12.32	12.21	12.45	12.90	52.96	47.04	5.92
October....	1,189	628	557	4	9.52	9.43	9.60	12.90	53.00	47.00	6.00
November..	982	525	454	3	7.86	7.88	7.83	9.68	53.63	46.37	7.26
December...	1,100	566	501	4	8.81	8.93	8.64	12.90	54.29	45.71	8.58
Unknown...	46	28	18	.....	.37	.42	.31	.....	60.87	39.13	21.74
Average.... ^b	1,037.08	532.67	481.83	2.58	8.33	8.33	8.33	8.33

^a Nine lost in equalizing,—5 males and 4 females.

^b Unknown month excluded.

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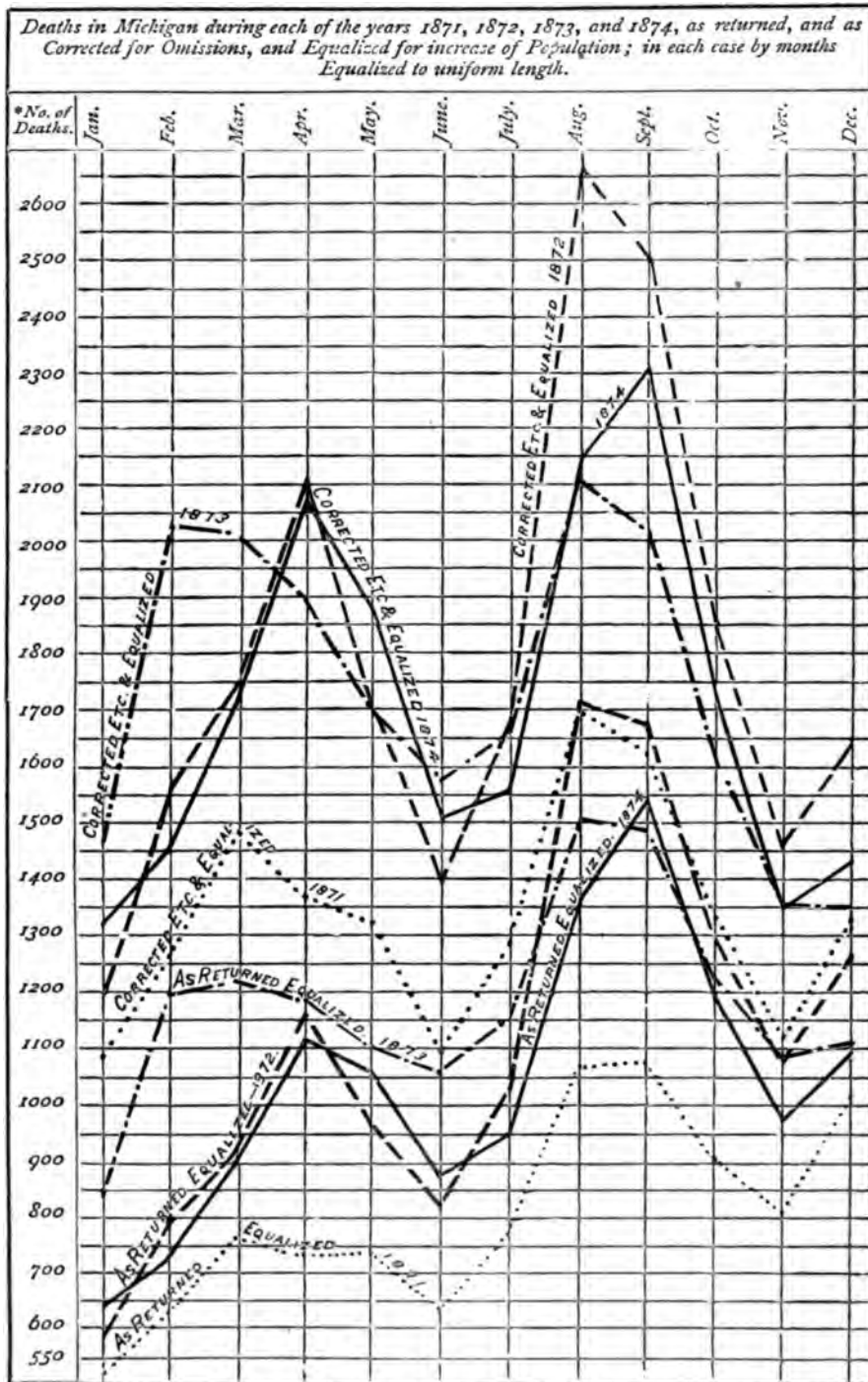
VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT C.—Deaths in Michigan during the Year 1874 as Returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the Year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also indicating some of the steps by which these results have been reached.

	MONTHS, 1874.												
	Total.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....	12,434	655	672	919	1,102	1,071	800	905	1,388	1,517	1,211	908	1,120
Per cent. of deaths to be added for correction for time elapsing before enumeration.....		97.73	91.61	85.50	79.30	73.29	67.17	61.06	54.95	48.84	42.73	36.62	30.51
Number of deaths to be added for above correction.....	7,500	640	616	796	875	785	593	580	703	741	617	354	313
Deaths, if enumerated in months of occurrence.....	20,014	1,295	1,288	1,703	1,977	1,856	1,448	1,554	2,151	2,258	1,728	1,322	1,403
Per cent. of deaths to be added to equalize them to population at close of year.....		4.21	3.86	3.51	3.16	2.81	2.40	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year.....	400	55	50	60	62	52	36	33	36	32	16	9	5
Deaths as corrected, equalized to population at close of year.....	20,404	1,350	1,338	1,763	2,039	1,908	1,484	1,587	2,186	2,290	1,746	1,331	1,407
Days and months by which the months should be increased or diminished to equalize them to months of uniform length.....		-86	+ 2.44	-56	+ 44	-56	+ 44	-56	-56	+ 44	.56	+ 44	.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length.....	+ 6	-21	+ 117	-52	+ 31	-34	+ 22	-20	-40	+ 34	.32	+ 19	.25
Deaths, corrected and equalized, equalized to months of uniform length.....	20,500	1,295	1,455	1,753	2,070	1,874	1,506	1,558	2,140	2,324	1,714	1,380	1,441

* Excluding 46 in unknown month.

DIAGRAM No. 3.



* Scale=333 1/3 to the inch. Drawn by L. de Lamarier. Designed by Henry B. Baker.
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EXHIBIT E.—Deaths in Michigan during the Year 1874 as Returned, as Corrected for Omissions in Enumerating, and as thus Corrected, Equalized to Months of Uniform length of 30.44 days each.

	Total *	MONTHS, 1874.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....		655	672	919	1,102	1,071	886	965	1,388	1,517	1,311	968	1,150
Per cent. of deaths to be added for correction for time elapsing before enumeration		97.73	91.61	86.50	79.39	73.28	67.17	61.06	54.95	48.84	42.73	36.63	30.51
Number of deaths to be added for above correction.....	7,890	640	616	798	875	738	693	599	763	741	517	354	343
Deaths, if enumerated in months of occurrence.....	20,044	1,295	1,288	1,708	1,977	1,809	1,448	1,564	2,151	2,258	1,793	1,322	1,493
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....		-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length.....	+2	-23	+112	-31	+99	-34	+21	-28	-39	+33	-31	+19	-26
Deaths, corrected and equalized to months of uniform length.....	20,046	1,273	1,400	1,674	2,006	1,822	1,469	1,536	2,112	2,291	1,697	1,341	1,466

* Excluding 46 in unknown month.

Table IV. contains valuable data concerning the proportion of deaths at different ages, and periods of life, by sex. It may be seen that 26.98 per cent. of all the deaths in 1874 were of those under one year of age, and 41.10 per cent. were of those under five years of age. Nearly the same proportion for decedents aged under five years is shown in the corresponding tables for previous years, but for decedents aged under one year, the per cent. in 1874 is considerably larger than the average for previous years. Taking the five years 1870-1874, we find the average per cent. of decedents aged under one year is 24.80, and the average per cent. of decedents aged under five years is 41.21. In 1874, the proportion of the decedents aged under one year was greater than for any previous year, and the proportion of decedents aged under five years was less than any previous year except 1871. The number of males to 100 females has been constantly decreasing since 1871, it being 116.55 for 1872, 116.10 for 1873, and 114.83 for 1874. At the period of life between the ages of fifteen and forty years, the proportion of the sexes of the decedents was very much greater among the females, but at other periods of life the excess is among the males; this is true as a general statement, as the statistics of deaths for several years show.

TABLE IV.—*Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1874; also the Excess of Persons of each Sex.*

AGES IN YEARS AND PERIODS.	NUMBER OF DEATHS, 1874.				PER CENT. OF DEATHS AT EACH AGE TO TO- TAL AT ALL AGES.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				EXCESS OF THE SEXES BY NUMBER.		Males to 100 Fe- males.
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Males.	Fe- males.	EXCESS.		Males.	Fe- males.	
										Males.	Fe- males.			
All Ages...	12,500	6,665	5,804	31	100.00	100.00	100.00	53.45	46.55	6.90		861		114.83
Under 1....	3,373	1,907	1,436	30	26.98	28.61	24.74	57.04	42.96	14.08		471		132.80
1 to 2.....	872	463	409		6.97	6.95	7.05	53.10	46.90	6.20		54		113.20
2 to 3.....	402	214	188		3.22	3.21	3.24	53.23	46.77	6.46		26		113.83
3 to 4.....	280	132	148		2.24	1.98	2.55	47.14	52.86		5.72		16	89.19
4 to 5.....	211	112	99		1.69	1.68	1.70	53.08	46.92	6.16		13		113.03
Under 5....	5,138	2,828	2,280	30	41.10	42.43	39.28	55.36	44.64	.62		548		124.04
5 to 10.....	594	321	273		4.75	4.82	4.70	54.04	45.96	8.06		48		117.58
10 to 15.....	359	183	176		2.87	2.74	3.03	50.97	49.03	1.94		7		103.98
15 to 20.....	530	235	295		4.24	3.42	5.08	44.34	55.66		11.32		60	79.66
20 to 25.....	618	273	345		4.94	4.10	5.94	44.17	55.83		11.66		72	79.13
25 to 30.....	514	227	287		4.11	3.41	4.94	44.16	55.84		11.68		60	79.10
30 to 35.....	434	184	250		3.47	2.76	4.31	42.40	57.60		15.20		66	73.60
35 to 40.....	440	189	251		3.52	2.84	4.32	42.95	57.05		4.10		62	75.30
40 to 45.....	390	202	188		3.12	3.03	3.24	51.79	48.21	3.58		14		107.45
45 to 50.....	384	224	160		3.07	3.36	2.78	53.33	46.67	6.66		64		14.00
50 to 55.....	397	231	166		3.18	3.46	2.86	53.19	46.81	16.38		65		133.13
55 to 60.....	398	232	166		3.19	3.48	2.86	53.29	46.71	16.58		66		139.76
60 to 65.....	400	233	167		3.68	4.40	2.88	63.70	36.30	27.40		26		175.45
65 to 70.....	454	273	182		3.63	4.08	3.14	59.91	40.09	19.82		90		162.45
70 to 75.....	434	252	182		3.47	3.78	3.14	53.06	46.94	16.12		70		138.41
75 to 80.....	318	191	127		2.55	2.86	2.19	60.06	39.94	20.12		64		162.52
80 to 85.....	232	121	111		1.86	1.82	1.91	52.15	47.84	4.31		10		109.01
85 to 90.....	104	53	51		.83	.80	.88	50.96	49.04	1.92		2		103.92
90 to 95.....	40	22	18		.32	.33	.31	55.00	45.00	5.00		4		122.22
95 to 100....	21	4	17		.17	.06	.29	19.05	80.95		38.10		13	23.53
100 and over	10	4	6		.08	.06	.10	40.00	60.00		20.00		2	66.67
Unk'n Ages	231	124	106	1	1.85	1.86	1.83	53.91	46.09	7.82		18		116.96

An exhibit on the plan of Exhibit G, page 129, was published for the first time in the Report for 1873. It is valuable in showing the influence of the season of the year upon the mortality among persons in different periods of life. The teaching of this exhibit for 1874 is that, of the decedents under one year of age, the largest proportion (15.50 per cent.) died in August, and that the per cent. of decedents under one year of age to decedents at all ages was greater (37.61) in

August than in any other month of the year; of the decedents under five years of age, the proportion is greater (15.45) in September than in any other month, and the per cent. of decedents aged under five years to decedents at all ages is the greatest (55.19) for August; of the decedents aged five to ten years, the proportion is greater (10.13) in October than in any other month, and the per cent. of decedents aged five to ten years to decedents at all ages is greatest (6.26) for January; of the decedents aged ten to twenty years the greatest proportional mortality (12.53 per cent.) was in October, and the per cent. of decedents aged ten to twenty years to decedents at all ages was greatest (9.23) in February; of the deaths of persons between the ages of twenty and fifty years the largest proportion (10.89) is shown for December, and the per cent. of decedents aged twenty to fifty years to decedents at all ages was greatest in May (28.01); and of the deaths of persons aged fifty years and over the greatest proportional mortality was in April, and the per cent. of decedents aged fifty years and over to decedents at all ages was also greatest in April (27.59). The popular statement of the showing of this exhibit concerning the danger to persons at the different periods of life is: to persons under one year of age, the greatest danger is in August; to persons under five years of age, the greatest danger is in September; to persons aged five to ten years, the greatest danger is in October; to persons aged ten to twenty years, the greatest danger is in October; to persons aged twenty to fifty years, the greatest danger is in December; and to persons aged over fifty years, the greatest danger is in April. The specific diseases or causes of deaths from which the danger is in each of these cases, may be learned from tables further on in this Report.

EXHIBIT F.—*Decedents in Michigan in 1874 by Sex, and Excess of the Sexes, by Age in Years.*

AGE IN YEARS.	DECEDENTS, 1874.				EXCESS.		AGE IN YEARS.	DECEDENTS, 1874.				EXCESS.	
	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.		Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.
All Ages...	12,500	6,965	5,504	31	861	-----	14.....	89	48	41	-----	7	-----
							15.....	68	37	31	-----	6	-----
Under 1....	3,373	1,907	1,436	30	471	-----	16.....	111	48	63	-----	15	-----
1.....	873	463	409	-----	54	-----	17.....	111	52	59	-----	7	-----
2.....	402	214	188	-----	26	-----	18.....	108	41	67	-----	26	-----
3.....	280	133	148	-----	16	-----	19.....	132	57	75	-----	18	-----
4.....	211	112	99	-----	13	-----	20.....	114	55	59	-----	4	-----
5.....	168	84	84	-----	-----	-----	21.....	121	46	75	-----	39	-----
6.....	119	65	54	-----	11	-----	22.....	122	67	55	-----	12	-----
7.....	113	63	50	-----	13	-----	23.....	115	43	72	-----	39	-----
8.....	105	61	44	-----	17	-----	24.....	146	62	84	-----	23	-----
9.....	89	48	41	-----	7	-----	25.....	125	62	63	-----	1	-----
10.....	81	44	37	-----	7	-----	26.....	93	39	54	-----	15	-----
11.....	67	34	33	-----	1	-----	27.....	106	44	62	-----	18	-----
12.....	57	26	31	-----	-----	5	28.....	111	50	61	-----	11	-----
13.....	65	31	34	-----	-----	3	29.....	79	32	47	-----	15	-----

EXHIBIT F.—CONTINUED.—*Decedents in Michigan in 1874.*

AGE IN YEARS.	DECEDENTS, 1874.				EXCESS.		AGE IN YEARS.	DECEDENTS, 1874.				EXCESS.		
	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.		Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.	
30.....	96	39	57	.....	.....	18	68.....	82	57	25	.....	32	.....
31.....	83	39	44	.....	.....	5	69.....	94	54	40	.....	14	.....
32.....	94	44	50	.....	.....	6	70.....	91	50	41	.....	9	.....
33.....	86	26	60	.....	.....	34	71.....	68	42	26	.....	16	.....
34.....	75	36	39	.....	.....	3	72.....	92	55	37	.....	18	.....
35.....	112	55	57	.....	.....	2	73.....	76	49	27	.....	22	.....
36.....	78	27	51	.....	.....	24	74.....	107	56	51	.....	5	.....
37.....	85	37	48	.....	.....	11	75.....	77	45	32	.....	13	.....
38.....	85	39	46	.....	.....	7	76.....	63	41	22	.....	19	.....
39.....	80	31	49	.....	.....	18	77.....	76	44	32	.....	12	.....
40.....	94	53	41	.....	12	.....	78.....	53	29	24	.....	5	.....
41.....	73	24	49	.....	.....	25	79.....	49	32	17	.....	15	.....
42.....	75	39	36	.....	3	.....	80.....	56	31	25	.....	6	.....
43.....	72	41	31	.....	10	.....	81.....	34	22	12	.....	10	.....
44.....	76	45	31	.....	14	.....	82.....	44	20	24	.....	4	.....
45.....	90	59	31	.....	28	.....	83.....	41	21	20	.....	1	.....
46.....	73	51	22	.....	29	.....	84.....	57	27	30	.....	3	.....
47.....	74	41	33	.....	8	.....	85.....	21	11	10	.....	1	.....
48.....	80	38	42	.....	4	.....	86.....	22	13	9	.....	4	.....
49.....	67	35	32	.....	3	.....	87.....	27	14	13	.....	1	.....
50.....	115	71	44	.....	27	.....	88.....	19	8	11	.....	3	.....
51.....	55	36	19	.....	17	.....	89.....	15	7	8	.....	1	.....
52.....	72	38	34	.....	4	.....	90.....	12	9	3	.....	6	.....
53.....	67	41	26	.....	15	.....	91.....	9	5	4	.....	1	.....
54.....	88	45	43	.....	2	.....	92.....	7	4	3	.....	1	.....
55.....	87	54	33	.....	21	.....	93.....	6	1	5	.....	4	.....
56.....	89	45	44	.....	1	.....	94.....	6	3	3	.....	.....	.....
57.....	74	41	33	.....	8	.....	95.....	7	1	6	.....	5	.....
58.....	79	49	30	.....	19	.....	96.....	7	1	6	.....	5	.....
59.....	60	43	26	.....	17	.....	97.....	3	1	2	.....	1	.....
60.....	99	56	43	.....	13	.....	98.....	2	.....	2	.....	2	.....
61.....	65	44	21	.....	23	.....	99.....	2	1	1	.....	.....	.....
62.....	99	59	40	.....	10	.....	100.....	4	1	3	.....	2	.....
63.....	87	53	29	.....	29	.....	102.....	2	1	1	.....	.....	.....
64.....	110	76	34	.....	42	.....	103.....	1	1	.....	.....	1	.....
65.....	107	59	48	.....	11	.....	104.....	2	1	1	.....	.....	.....
66.....	98	53	45	8	105.....	1	1	1
67.....	73	49	24	.....	25	.....	Unknown.	231	124	106	1	18	.....

EXHIBIT G.—The Relation of the Deaths at Different Periods of Age to Deaths at All Ages, by Months; and for the same Periods of Age, the Relation of the Deaths in each Month to the Deaths in the Year 1874, according to the Returns.

DECEDENTS BY PERIODS OF AGE AND BY MONTHS.

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MONTHS, 1874.

Year,
1874.

DEATHS BY AGES IN PERIODS OF YEARS.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Average Month.	
All Ages.....	12,454	655	672	919	1,102	1,071	866	965	1,383	1,517	1,211	968	1,120	1,038
Under 1.....	3,368	132	132	210	261	262	224	265	522	513	312	222	283	281
Under 5.....	27.04	20.15	22.62	22.85	23.68	23.53	25.87	29.52	37.61	33.82	25.76	22.03	25.27	27.07
5 to 10.....	100.00	3.92	4.51	6.24	7.75	7.48	6.65	8.46	15.50	15.23	9.27	6.59	8.40	8.33
10 to 20.....	5,136	211	229	341	411	374	316	434	766	792	505	317	350	427
20 to 50.....	41.16	32.22	35.67	37.11	37.30	34.92	36.49	44.97	55.19	52.21	41.70	35.85	34.82	41.14
50 and over.....	100.00	4.12	4.66	6.05	8.02	7.30	6.16	8.47	14.94	15.45	9.85	6.77	7.61	8.33
Unknown Ages.....	692	41	42	46	46	59	50	39	53	54	60	49	54	49
	4.75	6.26	6.25	5.01	4.17	5.51	5.77	4.04	3.75	3.56	4.05	5.06	4.82	4.82
	100.00	6.83	7.09	7.77	7.77	9.97	8.45	6.59	8.78	9.12	10.13	8.28	9.12	8.33
	888	46	62	84	76	61	73	71	75	82	111	71	71	74
	7.12	7.08	8.23	9.14	6.90	5.70	8.43	7.67	5.40	5.41	9.17	7.34	6.34	7.13
	100.00	5.19	7.00	9.48	8.58	6.86	8.24	8.35	8.47	9.26	12.53	8.01	8.01	8.33
	2,774	167	153	208	230	300	212	200	231	274	258	228	302	281
	22.27	25.50	22.63	22.63	21.69	22.01	24.45	20.73	16.61	18.06	21.31	23.55	26.97	22.25
	100.00	6.02	5.59	7.50	8.61	10.81	7.64	7.21	8.83	9.88	9.30	8.22	10.89	8.33
	2,860	189	167	226	304	268	205	199	212	294	257	260	279	238
	22.97	24.27	24.85	24.50	27.59	25.02	23.67	20.62	17.43	19.38	21.22	24.86	24.01	22.93
	100.00	5.56	5.84	7.90	10.23	9.37	7.17	6.96	8.46	10.28	8.99	9.09	9.75	8.33
	216	31	7	14	26	9	10	10	22	21	20	13	24	18
	1.73	4.73	1.04	1.52	2.36	.84	1.16	1.97	1.59	1.38	1.65	1.34	2.14	1.73
	100.00	14.85	3.24	6.48	12.04	4.17	4.63	8.79	10.19	9.72	9.96	6.02	11.11	8.33

* Unknown month excluded.

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TABLE V.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year and in each Month of the Year 1874.*

AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.													Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.		
All Ages.	Total....	12,500	635	672	919	1,102	1,071	866	965	1,388	1,517	1211	968	1120	46	
	Males....	6,665	335	349	500	606	551	471	524	736	802	640	517	606	28	
	Females..	5,804	320	319	416	496	518	395	435	651	711	567	448	510	18	
	Unkn'n....	31	----	4	3	-----	2	-----	6	1	4	4	3	4	-----	
All Under 1	Total....	3,373	132	152	210	261	252	224	285	522	513	312	222	283	5	
	Males....	1,907	72	79	115	167	144	130	164	288	282	169	123	166	3	
	Females..	1,436	60	69	92	94	106	94	116	233	227	139	91	113	2	
	Unkn'n....	30	----	4	3	-----	2	-----	5	1	4	4	3	4	-----	
All Under 5	Total....	5,138	211	239	341	411	374	316	434	766	792	505	347	390	12	
	Males....	2,928	104	127	189	253	206	173	235	420	428	262	198	227	6	
	Females..	2,280	107	108	149	158	166	143	194	345	360	239	148	157	6	
	Unkn'n....	30	----	4	3	-----	2	-----	5	1	4	4	3	4	-----	
5 to 10....	Total....	594	41	42	46	46	59	50	39	52	54	60	49	54	2	
	Males....	321	24	25	31	20	27	28	24	28	26	37	18	32	1	
	Females..	273	17	17	15	26	32	22	15	24	28	23	31	22	1	
10 to 15....	Total....	359	16	28	35	29	24	29	37	26	37	30	29	29	1	
	Males....	183	7	18	17	14	14	17	19	17	18	19	12	11	-----	
	Females..	176	9	10	18	15	10	12	18	9	19	20	17	18	1	
15 to 20....	Total....	530	30	34	49	47	37	44	37	49	45	72	42	42	2	
	Males....	235	14	14	28	23	14	19	14	21	24	33	13	17	1	
	Females..	295	16	20	21	24	23	25	23	28	21	39	29	25	1	
20 to 25....	Total....	618	29	26	53	49	64	47	54	46	57	65	59	69	-----	
	Males....	273	9	10	23	23	26	19	27	18	21	35	31	31	-----	
	Females..	345	20	16	30	26	38	28	27	28	36	30	28	38	-----	
25 to 30....	Total....	514	26	26	37	51	59	44	46	41	51	39	46	46	2	
	Males....	227	10	10	15	19	23	18	24	14	23	18	25	27	2	
	Females..	287	16	16	22	32	36	26	22	27	29	21	21	19	-----	
30 to 35....	Total....	434	32	24	29	26	45	87	35	37	45	43	29	51	1	
	Males....	184	13	7	16	11	19	19	11	12	20	18	15	22	-----	
	Females..	250	17	17	13	15	27	18	24	25	25	25	14	29	1	
35 to 40....	Total....	440	33	27	34	41	54	26	24	40	38	41	37	42	1	
	Males....	189	16	13	11	20	27	10	7	19	20	19	13	13	1	
	Females..	251	19	14	23	21	27	16	17	21	18	22	24	29	-----	
40 to 45....	Total....	390	25	23	29	38	38	31	13	38	47	35	31	41	1	
	Males....	202	18	13	17	15	18	18	5	16	31	15	15	20	1	
	Females..	188	7	10	12	23	20	13	8	22	16	20	16	21	-----	

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TABLE V.—CONTINUED.—Deaths by Periods of Age, by Sex, by Months.

AGES IN PERIODS OF YEARS.		SEX.	YEAR, 1874.	MONTHS, 1874.												
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
45 to 50.	Total		384	20	29	26	34	40	27	28	29	36	35	26	53	1
	Males		224	11	15	17	18	24	14	17	18	18	25	17	29	1
	Females		160	9	14	9	16	16	13	11	11	18	10	9	24	
50 to 55.	Total		397	24	27	28	50	33	30	25	39	39	32	32	37	1
	Males		231	11	19	19	25	15	19	18	24	21	16	23	18	
	Females		166	13	8	9	25	18	11	7	15	18	16	9	19	1
55 to 60.	Total		398	24	18	22	60	30	25	25	37	29	39	40	48	1
	Males		232	18	10	11	38	16	12	16	19	14	27	20	30	1
	Females		166	6	8	11	22	14	13	9	18	15	12	20	18	
60 to 65.	Total		460	27	29	50	40	41	28	34	40	43	40	40	45	3
	Males		293	19	20	36	23	25	18	23	23	22	27	25	29	3
	Females		167	8	9	14	17	16	10	11	17	21	13	15	16	
65 to 70.	Total		454	23	28	36	41	52	35	28	27	53	44	48	39	
	Males		272	12	18	22	22	34	21	19	17	29	27	26	25	
	Females		182	11	10	14	19	18	14	9	10	24	17	22	14	
70 to 75.	Total		434	23	23	39	48	37	29	28	40	43	37	41	44	3
	Males		252	11	11	20	29	17	19	20	24	25	21	25	29	1
	Females		182	12	12	19	19	20	10	8	16	18	16	16	15	1
75 to 80.	Total		318	16	20	20	33	40	23	31	22	34	26	19	33	1
	Males		191	10	7	15	17	23	17	20	17	17	16	12	17	1
	Females		127	6	13	5	16	15	6	11	5	17	10	7	16	
80 to 85.	Total		232	11	13	21	16	20	18	15	20	33	23	26	16	
	Males		121	6	5	5	10	11	13	7	12	22	5	15	10	
	Females		111	5	8	16	6	9	5	8	8	11	18	11	6	
85 to 90.	Total		104	8	7	3	10	13	7	9	11	10	13	6	7	
	Males		53	4	3	1	7	6	3	4	5	7	7	3	3	
	Females		51	4	4	2	3	7	4	5	6	3	6	3	4	
90 to 95.	Total		40	1	1	2	6	1	8	3	2	4	1	6	5	
	Males		22	1	1	1	3		5	2		1	1	3	4	
	Females		18			1	3	1	3	1	2	3		3	1	
95 to 100.	Total		21	1	1	4			1		3	4	2	2	3	
	Males		4						1			2	1			
	Females		17	1	1	4					3	2	1	2	3	
100 & Over	Total		10	1		1		1	1	1	1	2			2	
	Males		4	1					1		1				1	
	Females		6			1		1		1		2			1	
Unk'n.	Total		231	31	7	14	26	9	10	19	22	21	20	13	24	15
	Males		124	14	3	6	16	5	7	12	11	11	11	8	11	9
	Females		106	17	4	8	10	4	3	6	11	10	9	5	13	6
	Unk'n.		1							1						

TABLE VI.—*Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1874 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Under 1-12	Total.....	1,377	71	78	92	118	132	107	113	157	139	125	97	145	3
	Males.....	779	33	41	51	75	78	71	68	83	68	69	52	89	1
	Females.....	570	38	33	38	43	52	36	40	73	68	52	42	53	2
	Unk'n.....	28	—	4	3	—	2	—	5	1	3	4	3	3	—
1-12	Total.....	318	17	11	19	25	26	15	29	45	55	34	26	16	—
	Males.....	184	11	5	9	15	15	7	19	23	32	24	15	7	—
	Females.....	134	6	6	10	10	11	8	10	20	23	10	11	9	—
2-12	Total.....	293	8	11	20	20	16	24	24	49	45	31	21	24	—
	Males.....	163	6	6	12	14	8	10	12	31	23	14	12	15	—
	Females.....	130	2	5	8	6	8	14	12	18	22	17	9	9	—
3-12	Total.....	226	6	10	12	22	11	18	15	48	36	17	15	16	—
	Males.....	138	3	7	7	16	8	8	11	29	22	9	9	9	—
	Females.....	87	3	3	5	6	3	10	4	19	14	8	6	6	—
4-12	Total.....	188	5	6	11	6	12	15	18	34	39	17	11	13	2
	Males.....	110	3	6	6	4	5	11	9	19	20	11	8	7	1
	Females.....	78	2	—	5	2	7	4	9	15	19	6	3	6	—
5-12	Total.....	161	4	3	9	9	7	9	15	40	31	11	12	11	—
	Males.....	85	1	3	6	5	2	5	7	20	16	6	6	8	—
	Females.....	76	3	—	3	4	5	4	8	20	15	5	6	3	—
6-12	Total.....	155	4	4	6	10	8	8	15	35	28	13	8	16	—
	Males.....	90	3	2	4	6	4	3	10	20	16	7	6	9	—
	Females.....	65	1	2	2	4	4	5	5	15	12	6	2	7	—
7-12	Total.....	141	5	3	11	12	8	6	16	19	32	12	6	11	—
	Males.....	87	4	—	4	7	6	5	9	12	20	7	5	8	—
	Females.....	54	1	3	7	5	2	1	7	7	12	5	1	3	—
8-12	Total.....	124	1	3	7	10	4	8	4	19	30	19	6	13	—
	Males.....	72	—	1	4	8	3	5	2	11	20	7	4	7	—
	Females.....	52	1	2	3	2	1	3	2	8	10	12	2	6	—
9-12	Total.....	145	4	9	7	13	9	7	20	23	26	9	10	7	1
	Males.....	79	3	4	5	9	4	3	8	10	18	5	7	2	1
	Females.....	65	1	5	2	4	5	4	12	13	7	4	3	5	—
10-12	Total.....	136	2	5	10	10	10	5	6	29	23	12	7	7	—
	Males.....	63	2	1	4	6	6	2	5	15	10	5	3	4	—
	Females.....	63	—	4	6	4	4	3	1	14	13	7	4	3	—

* Still-births included. See table of specified causes of deaths.

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
11-12.....	Total.....	119	5	9	6	6	9	2	10	24	29	12	3	4	-----
	Males.....	57	3	3	3	2	5	-----	4	13	17	5	1	1	-----
	Females.....	62	2	6	3	4	4	2	6	11	12	7	2	3	-----
1.....	Total.....	872	33	30	49	72	44	44	84	143	165	102	52	51	3
	Males.....	463	15	19	26	44	24	16	41	83	88	51	27	27	3
	Females.....	409	18	11	23	28	20	28	43	60	77	51	25	24	1
2.....	Total.....	402	14	23	37	27	34	22	37	52	63	38	33	20	3
	Males.....	214	4	13	21	15	19	10	17	25	35	20	20	14	1
	Females.....	188	10	10	16	12	15	12	20	27	28	18	13	6	1
3.....	Total.....	280	16	19	31	27	25	15	16	29	31	28	24	17	3
	Males.....	132	6	7	18	13	10	10	8	13	11	15	12	9	-----
	Females.....	148	10	12	13	14	15	5	8	16	20	13	12	8	3
4.....	Total.....	211	16	15	14	24	19	11	12	20	20	25	16	19	-----
	Males.....	112	7	9	9	14	9	7	5	11	12	7	11	11	-----
	Females.....	99	9	6	5	10	10	4	7	9	8	18	5	8	-----
5.....	Total.....	168	9	11	11	15	16	13	12	17	18	14	16	16	-----
	Males.....	84	5	8	5	8	9	6	8	4	6	10	6	9	-----
	Females.....	84	4	3	6	7	7	7	4	13	12	4	10	7	-----
6.....	Total.....	119	3	8	10	14	10	13	6	10	8	10	14	12	1
	Males.....	65	3	3	6	6	3	8	3	6	6	6	7	8	-----
	Females.....	54	-----	5	4	8	7	5	3	4	2	4	7	4	1
7.....	Total.....	113	15	8	7	3	18	11	5	10	11	10	6	9	-----
	Males.....	63	7	7	5	1	9	7	2	8	3	7	1	6	-----
	Females.....	50	8	1	2	2	9	4	3	2	8	3	5	3	-----
8.....	Total.....	105	5	7	7	8	9	7	12	11	9	15	6	9	-----
	Males.....	61	3	4	6	3	3	5	10	7	7	8	1	4	-----
	Females.....	44	2	3	1	5	6	2	2	4	2	7	5	5	-----
9.....	Total.....	89	9	8	11	6	6	6	4	4	8	11	7	8	1
	Males.....	48	6	3	9	2	3	2	1	3	4	6	3	5	1
	Females.....	41	3	5	2	4	3	4	3	1	4	5	4	3	-----
10.....	Total.....	81	6	5	9	6	5	8	7	8	6	7	6	7	1
	Males.....	44	2	3	6	2	4	4	4	6	4	4	2	3	-----
	Females.....	37	4	2	3	4	1	4	3	2	2	3	4	4	1
11.....	Total.....	67	3	7	5	6	7	3	5	3	7	9	4	8	-----
	Males.....	34	2	4	2	3	2	2	2	3	4	4	2	4	-----
	Females.....	33	1	3	3	3	5	1	3	-----	3	5	2	4	-----
12.....	Total.....	57	3	5	5	5	4	6	3	6	6	9	3	2	-----
	Males.....	26	1	4	1	3	3	2	2	3	4	3	-----	-----	-----
	Females.....	31	2	1	4	2	1	4	1	3	2	6	3	2	-----

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
13.....	Total....	65	1	5	6	7	3	5	11	6	7	5	6	5	-----
	Males....	31	---	2	3	2	2	4	6	2	2	2	4	2	-----
	Females.	34	1	3	3	5	1	1	5	4	5	1	2	3	-----
14.....	Total....	89	3	6	10	5	5	7	11	3	11	11	10	7	-----
	Males....	48	2	5	5	4	3	5	5	3	4	6	4	2	-----
	Females.	41	1	1	5	1	2	2	6	-----	7	5	6	5	-----
15.....	Total....	68	4	7	5	4	3	7	7	8	7	7	4	5	-----
	Males....	37	3	4	3	1	2	3	4	5	3	4	2	3	-----
	Females.	31	1	3	2	3	1	4	3	3	4	3	2	2	-----
16.....	Total....	111	2	10	7	11	9	12	6	9	8	15	10	10	3
	Males....	48	1	6	2	7	3	4	3	4	3	7	3	4	1
	Females.	63	1	4	5	4	6	8	3	5	5	8	7	6	1
17.....	Total....	111	8	5	12	8	8	9	7	10	12	19	5	8	-----
	Males....	52	3	1	10	4	3	4	2	5	10	6	1	3	-----
	Females.	59	5	4	2	4	5	5	5	5	2	13	4	5	-----
18.....	Total....	108	9	5	10	11	7	7	7	11	5	14	12	10	-----
	Males....	41	4	1	5	5	2	3	2	4	2	5	4	4	-----
	Females.	67	5	4	5	6	5	4	5	7	3	9	8	6	-----
19.....	Total....	132	7	7	15	13	10	9	10	11	13	17	11	9	-----
	Males....	57	3	2	8	6	4	5	3	3	6	11	3	3	-----
	Females.	75	4	5	7	7	6	4	7	8	7	6	8	6	-----
20.....	Total....	114	4	6	13	11	9	6	12	8	14	13	6	12	-----
	Males....	55	3	3	5	5	2	2	8	3	4	10	4	6	-----
	Females.	59	1	3	8	6	7	4	4	5	10	3	2	6	-----
21.....	Total....	121	1	5	13	9	15	7	9	7	13	10	11	21	-----
	Males....	46	---	2	6	2	8	2	3	4	4	4	3	8	-----
	Females.	75	1	3	7	7	7	5	6	3	9	6	8	13	-----
22.....	Total....	122	5	6	6	10	16	10	8	13	9	18	12	9	-----
	Males....	67	2	3	3	6	7	3	5	7	6	9	10	6	-----
	Females.	55	3	3	3	4	9	7	3	6	3	9	2	3	-----
23.....	Total....	115	10	5	7	7	9	12	13	6	8	16	10	12	-----
	Males....	43	2	1	2	4	3	5	8	-----	3	8	3	4	-----
	Females.	72	8	4	5	3	6	7	5	6	5	8	7	8	-----
24.....	Total....	146	9	4	14	12	15	12	12	12	13	8	20	15	-----
	Males....	62	2	1	7	6	6	7	3	4	4	4	11	7	-----
	Females.	84	7	3	7	6	9	5	9	8	9	4	9	8	-----
25.....	Total....	125	6	3	14	14	12	11	16	9	11	10	10	9	-----
	Males....	62	3	2	7	8	6	2	9	3	7	3	6	6	-----
	Females.	63	3	1	7	6	6	9	7	6	4	7	4	3	-----

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
26	Total....	93	8	3	5	4	9	10	8	6	7	7	11	13	2
	Males....	39	2	---	1	---	3	4	4	3	3	3	5	9	2
	Females..	54	6	3	4	4	6	6	4	3	4	4	6	4	---
27	Total....	106	3	5	6	10	19	9	10	8	10	7	9	10	---
	Males....	44	1	2	4	5	7	4	4	2	2	4	6	3	---
	Females..	62	2	3	2	5	12	5	6	6	8	3	3	7	---
28	Total....	111	6	8	7	11	10	11	11	11	14	5	8	9	---
	Males....	50	3	2	---	4	2	8	7	4	6	3	4	7	---
	Females..	61	3	6	7	7	8	3	4	7	8	2	4	2	---
29	Total....	79	2	7	5	12	9	3	1	7	9	10	8	5	---
	Males....	32	1	4	3	2	5	---	---	2	4	5	4	2	---
	Females..	47	2	3	2	10	4	3	1	5	5	5	4	3	---
30	Total....	96	10	5	9	5	8	6	5	9	11	10	8	10	---
	Males....	39	6	3	5	2	2	5	---	3	3	4	4	2	---
	Females..	57	4	2	4	3	6	1	5	6	8	6	4	8	---
31	Total....	83	6	6	3	6	8	5	6	8	10	7	6	12	---
	Males....	39	2	1	1	1	4	3	2	4	5	3	4	9	---
	Females..	44	4	5	2	5	4	2	4	4	5	4	2	3	---
32	Total....	94	4	2	5	3	12	13	6	8	11	10	7	13	---
	Males....	44	2	1	4	1	6	5	2	4	5	5	4	5	---
	Females..	50	2	1	1	2	6	8	4	4	6	5	3	8	---
33	Total....	86	4	4	11	7	9	8	11	7	4	7	4	9	1
	Males....	26	1	---	5	2	1	3	4	1	4	1	1	3	---
	Females..	60	3	4	6	5	8	5	7	6	---	6	3	6	1
34	Total....	75	8	7	1	5	8	5	7	5	9	9	4	7	---
	Males....	36	4	2	1	5	5	3	3	---	3	5	2	3	---
	Females..	39	4	5	---	---	3	2	4	5	6	4	2	4	---
35	Total....	112	12	4	5	13	13	6	6	10	10	8	9	16	---
	Males....	55	4	2	3	7	6	3	3	5	7	5	3	7	---
	Females..	57	8	2	2	6	7	3	3	5	3	3	6	9	---
36	Total....	78	5	4	8	7	12	5	5	10	1	6	6	9	---
	Males....	27	1	2	1	2	7	2	---	5	---	1	3	3	---
	Females..	51	4	2	7	5	5	3	5	5	1	5	3	6	---
37	Total....	85	8	4	3	9	13	7	4	11	6	10	6	4	---
	Males....	37	3	1	1	3	5	3	2	6	3	6	3	1	---
	Females..	48	5	3	2	6	8	4	2	5	3	4	3	3	---
38	Total....	85	6	6	13	7	7	2	5	6	12	9	5	7	---
	Males....	39	5	3	5	5	5	1	1	2	6	5	1	---	---
	Females..	46	1	3	8	2	2	1	4	4	6	4	4	7	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total....	80	4	9	5	5	9	6	4	3	9	8	11	6	1
39.....	Males....	31	3	5	1	3	4	1	1	1	4	2	3	2	1
	Females..	49	1	4	4	2	5	5	3	2	5	6	8	4	---
	Total....	94	5	5	7	7	8	8	3	12	9	12	8	9	1
40.....	Males....	53	4	3	5	3	5	4	1	6	7	6	4	4	1
	Females..	41	1	2	2	4	3	4	2	6	2	6	4	5	---
	Total....	73	2	4	6	10	6	3	1	8	8	10	5	10	---
41.....	Males....	24	1	2	3	2	1	2	---	1	4	3	2	3	---
	Females..	49	1	2	3	8	5	1	1	7	4	7	3	7	---
	Total....	75	6	5	4	7	11	8	1	5	9	6	7	6	---
42.....	Males....	39	4	2	2	4	5	5	---	2	7	3	3	2	---
	Females..	36	2	3	2	3	6	3	1	3	2	3	4	4	---
	Total....	72	5	5	3	8	8	7	3	10	9	4	6	4	---
43.....	Males....	41	4	3	1	4	5	5	1	5	4	1	4	4	---
	Females..	31	1	2	2	4	3	2	2	5	5	3	2	---	---
	Total....	76	7	4	9	6	5	5	5	3	12	3	5	12	---
44.....	Males....	45	5	3	6	2	2	2	3	2	9	2	2	7	---
	Females..	31	2	1	3	4	3	3	2	1	3	1	3	5	---
	Total....	90	6	10	3	7	10	6	4	8	6	9	9	11	1
45.....	Males....	59	4	5	3	4	9	3	2	4	3	7	5	9	1
	Females..	31	2	5	---	3	1	3	2	4	3	2	4	2	---
	Total....	73	4	4	9	6	3	6	6	5	7	6	4	13	---
46.....	Males....	51	2	2	6	5	3	4	5	5	5	5	2	7	---
	Females..	22	2	2	3	1	---	2	1	---	2	1	2	6	---
	Total....	74	3	3	6	9	9	5	5	3	11	9	4	7	---
47.....	Males....	41	---	2	3	4	4	4	3	2	7	8	2	2	---
	Females..	33	3	1	3	5	5	1	2	1	4	1	2	5	---
	Total....	80	4	8	5	6	9	4	5	10	9	6	3	11	---
48.....	Males....	38	3	4	2	2	5	---	2	4	2	4	3	7	---
	Females..	42	1	4	3	4	4	4	3	6	7	2	---	4	---
	Total....	67	3	4	3	6	9	6	8	3	3	5	6	11	---
49.....	Males....	35	2	2	3	3	3	3	5	3	1	1	5	4	---
	Females..	32	1	2	---	3	6	3	3	---	2	4	1	7	---
	Total....	115	13	10	9	14	11	5	6	8	11	11	7	9	1
50.....	Males....	71	6	8	5	6	5	3	5	6	8	7	5	7	---
	Females..	44	7	2	4	8	6	2	1	2	3	4	2	2	1
	Total....	55	---	3	4	9	2	10	2	5	5	3	6	6	---
51.....	Males....	36	---	3	3	5	1	6	1	4	4	3	4	2	---
	Females..	19	---	---	1	4	1	4	1	1	1	---	2	4	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
52	Total	72	2	4	7	10	5	3	6	10	5	4	8	8	-----
	Males	38	-----	1	5	4	3	2	5	3	4	-----	6	5	-----
	Females	34	2	3	2	6	2	1	1	7	1	4	2	3	-----
53	Total	67	5	4	6	6	7	5	9	5	7	3	7	3	-----
	Males	41	4	2	5	3	2	4	5	3	3	2	6	2	-----
	Females	26	1	2	1	3	5	1	4	2	4	1	1	1	-----
54	Total	88	4	6	2	11	8	7	2	11	11	11	4	11	-----
	Males	45	1	5	1	7	4	4	2	8	5	4	2	2	-----
	Females	43	3	1	1	4	4	3	-----	3	6	7	2	9	-----
55	Total	87	3	3	5	16	8	3	7	8	9	9	10	6	-----
	Males	54	3	2	2	8	6	1	5	5	6	6	8	2	-----
	Females	33	-----	1	3	8	2	2	2	3	3	3	2	4	-----
56	Total	89	4	2	9	16	5	11	2	10	4	7	7	11	1
	Males	45	2	-----	4	14	1	5	-----	6	1	4	1	6	1
	Females	44	2	2	5	2	4	6	2	4	3	3	6	5	-----
57	Total	74	7	3	2	14	7	4	6	8	6	7	5	5	-----
	Males	41	6	1	1	8	3	2	4	3	2	5	2	4	-----
	Females	33	1	2	1	6	4	2	2	5	4	2	3	1	-----
58	Total	79	5	5	4	9	3	1	4	5	6	10	7	20	-----
	Males	49	4	2	3	6	2	-----	3	1	3	7	4	14	-----
	Females	30	1	3	1	3	1	1	1	4	3	3	3	6	-----
59	Total	69	5	5	2	5	7	6	6	6	4	6	11	6	-----
	Males	43	3	5	1	2	4	4	4	4	2	5	5	4	-----
	Females	26	2	-----	1	3	3	2	2	2	2	1	6	2	-----
60	Total	99	8	4	8	5	6	8	7	7	12	12	11	11	-----
	Males	56	7	3	4	3	3	4	4	4	5	7	6	6	-----
	Females	43	1	1	4	2	3	4	3	3	7	5	5	5	-----
61	Total	65	5	4	7	7	3	7	1	3	9	3	4	6	1
	Males	44	3	3	6	2	3	4	1	3	5	6	3	4	1
	Females	21	2	1	1	5	-----	3	-----	-----	4	2	1	2	-----
62	Total	99	5	7	13	8	7	6	7	12	7	7	6	14	-----
	Males	59	2	4	11	6	5	5	4	6	2	5	1	8	-----
	Females	40	3	3	2	2	2	1	3	6	5	2	5	6	-----
63	Total	87	6	3	7	11	10	4	10	11	7	3	9	5	1
	Males	56	5	3	5	6	4	2	6	7	4	3	7	5	1
	Females	29	1	-----	2	5	6	2	4	4	3	-----	2	-----	-----
-----	Total	110	3	11	15	9	15	3	9	7	8	10	10	9	1
	Males	76	2	7	10	6	10	3	8	3	6	6	8	6	1
	Females	34	1	4	5	3	5	-----	1	4	2	4	2	3	-----

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
65	Total	107	5	11	6	11	11	10	9	4	11	12	12	5	-----
	Males	59	-----	10	5	5	5	7	6	3	5	5	6	2	-----
	Females	48	5	1	1	6	6	3	3	1	6	7	6	3	-----
66	Total	98	4	3	5	7	7	10	6	6	12	12	19	7	-----
	Males	53	2	1	3	1	4	4	3	3	9	9	8	6	-----
	Females	45	2	2	2	6	3	6	3	3	3	3	11	1	-----
67	Total	73	3	7	3	5	15	6	5	1	7	5	6	10	-----
	Males	49	2	4	1	4	9	5	4	1	5	3	5	6	-----
	Females	24	1	3	2	1	6	1	1	-----	2	2	1	4	-----
68	Total	82	7	4	7	8	9	5	5	8	8	6	10	5	-----
	Males	57	5	3	6	5	7	2	3	5	4	6	7	4	-----
	Females	25	2	1	1	3	2	3	2	3	4	-----	3	1	-----
69	Total	94	4	3	15	10	10	4	3	8	15	9	1	12	-----
	Males	54	3	-----	7	7	9	3	3	5	6	4	-----	7	-----
	Females	40	1	3	8	3	1	1	-----	3	9	5	1	5	-----
70	Total	91	5	7	8	8	15	9	2	6	5	4	8	13	1
	Males	50	1	2	5	6	7	8	-----	3	3	2	4	8	1
	Females	41	4	5	3	2	8	1	2	3	2	2	4	5	-----
71	Total	68	4	2	6	9	3	5	9	6	4	10	4	6	-----
	Males	42	3	-----	4	6	1	3	7	3	2	6	2	5	-----
	Females	26	1	2	2	3	2	2	2	3	2	4	2	1	-----
72	Total	92	5	3	9	11	10	7	2	8	11	5	10	11	-----
	Males	55	3	3	4	5	5	4	1	7	9	1	6	7	-----
	Females	37	2	-----	5	6	5	3	1	1	2	4	4	4	-----
73	Total	76	2	3	7	9	4	-----	4	9	9	9	12	8	-----
	Males	49	-----	2	5	7	1	-----	4	6	4	7	7	6	-----
	Females	27	2	1	2	2	3	-----	-----	3	5	2	5	2	-----
74	Total	107	7	8	9	11	5	8	11	11	14	9	7	6	1
	Males	56	4	4	2	5	3	4	8	5	7	5	6	3	-----
	Females	51	3	4	7	6	2	4	3	6	7	4	1	3	1
75	Total	77	3	6	2	9	7	5	9	3	11	6	6	10	-----
	Males	45	1	3	-----	5	4	4	7	3	6	4	3	5	-----
	Females	32	2	3	2	4	3	1	2	-----	5	2	3	5	-----
76	Total	63	3	5	7	6	10	7	8	2	4	1	4	6	-----
	Males	41	2	2	5	4	7	7	6	1	2	-----	3	2	-----
	Females	22	1	3	2	2	3	-----	2	1	2	1	1	4	-----
77	Total	76	5	6	4	6	8	5	5	9	7	8	4	8	1
	Males	44	3	1	4	2	5	2	4	6	3	7	2	4	1
	Females	32	2	5	-----	4	3	3	1	3	4	1	2	4	-----

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
78.	Total	53	2	3	4	6	9	1	5	1	5	8	4	5	---
	Males	29	2	1	3	4	4	1	2	1	1	4	3	3	---
	Females	24	---	2	1	2	5	---	3	---	4	4	1	2	---
79.	Total	49	3	---	3	6	6	5	4	7	7	3	1	4	---
	Males	32	2	---	3	2	5	3	1	6	5	1	1	3	---
	Females	17	1	---	---	4	1	2	3	1	2	2	---	1	---
80.	Total	56	2	---	4	4	4	4	4	7	9	8	7	3	---
	Males	31	1	---	1	3	3	2	3	5	6	2	2	3	---
	Females	25	1	---	3	1	1	2	1	2	3	6	5	---	---
81.	Total	34	4	2	3	1	3	3	2	2	6	3	2	3	---
	Males	22	3	1	1	---	3	2	1	1	5	2	2	1	---
	Females	12	1	1	2	1	---	1	1	1	1	1	---	2	---
82.	Total	44	---	6	2	5	2	2	3	5	5	4	7	3	---
	Males	20	---	2	---	1	2	2	1	3	4	---	4	1	---
	Females	24	---	4	2	4	---	---	2	2	1	4	3	2	---
83.	Total	41	1	3	4	1	6	2	4	2	6	3	6	3	---
	Males	21	---	2	2	1	2	2	1	1	3	1	3	3	---
	Females	20	1	1	2	---	4	---	3	1	3	2	3	---	---
84.	Total	57	4	2	8	5	5	7	2	4	7	5	4	4	---
	Males	27	2	---	1	5	1	5	1	2	4	---	4	2	---
	Females	30	2	2	7	---	4	2	1	2	3	5	---	2	---
85.	Total	21	---	2	---	6	1	2	3	3	2	---	1	1	---
	Males	11	---	1	---	4	---	2	---	1	2	---	1	---	---
	Females	10	---	1	---	2	1	---	3	2	---	---	---	1	---
86.	Total	22	1	1	1	2	2	---	2	3	1	3	3	3	---
	Males	13	1	1	---	2	1	---	2	1	1	2	---	2	---
	Females	9	---	---	1	---	1	---	---	2	---	1	3	1	---
87.	Total	27	2	3	---	1	7	1	2	3	2	3	1	2	---
	Males	14	1	1	---	---	3	---	1	2	1	3	1	1	---
	Females	13	1	2	---	1	4	1	1	1	1	---	---	1	---
88.	Total	19	2	---	2	---	3	3	1	2	2	4	---	---	---
	Males	8	1	---	1	---	2	---	1	1	1	1	---	---	---
	Females	11	1	---	1	---	1	3	---	1	1	3	---	---	---
89.	Total	15	3	1	---	1	---	1	1	---	3	3	1	1	---
	Males	7	1	---	---	1	---	1	---	---	2	1	1	---	---
	Females	8	2	1	---	---	---	---	1	---	1	2	---	1	---
90.	Total	12	---	1	1	3	---	1	1	1	---	1	1	2	---
	Males	9	---	1	1	2	---	1	1	---	---	1	1	1	---
	Females	3	---	---	---	1	---	---	---	1	---	---	---	1	---

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

AGES IN YEARS.	SEX.	Year, 1874.	MONTHS, 1874.												Unk.
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
91	Total	9	1		1	2		3			1		1		
	Males	5	1			1		2					1		
	Females	4			1	1		1			1				
92	Total	7				1	1	1	1				1	2	
	Males	4						1	1					2	
	Females	3				1	1						1		
93	Total	6						3	1		1		1		
	Males	1						1							
	Females	5						2	1		1		1		
94	Total	6								1	2		2	1	
	Males	3									1		1	1	
	Females	3								1	1		1		
95	Total	7								1	3	1	1	1	
	Males	1									1				
	Females	6								1	2	1	1	1	
96	Total	7	1		2					1		1	1	1	
	Males	1										1			
	Females	6	1		2					1			1	1	
97	Total	3		1	1						1			1	
	Males	1									1				
	Females	2		1	1										
98	Total	2			1									1	
	Males	1						1		1					
	Females	1								1					
99	Total	4	1		1						1			1	
	Males	1	1												
	Females	3			1						1			1	
100	Total	2					1							1	
	Males	1												1	
	Females	1					1								
101	Total	2						1			1				
	Males	1													
	Females	1					1				1				
102	Total	1													
	Males	1													
	Females	1													
103	Total	2						1			1				
	Males	1													
	Females	1						1			1				
104	Total	1													
	Males	1													
	Females	1													
105	Total	1							1						
	Males	1													
	Females	1							1						
Unk'n	Total	231	31	7	14	26	9	10	19	22	21	20	13	24	15
	Males	124	14	3	6	16	5	7	12	11	11	11	8	11	9
	Females	106	17	4	8	10	4	3	6	11	10	9	5	13	6
	Unk'n	1							1						

INFANT MORTALITY.

The first lines in Exhibits F and G, and in Tables IV., V., and VI., on preceding pages, supply interesting data on this important subject, as do also Exhibits 2, 3, 4, and 5, and Table VIII., following this.

In the compilation of still-births for each of the years previous to 1874, those in the returns of births were compiled with the other tabulation for births, and those in the returns of deaths were compiled with the other tabulation for deaths; and the number in the returns for births was different from that in the returns of deaths, in each year; but for this compilation, for 1874, the still-births in the returns of births have been compared with those in the returns of deaths, and in the tables on this subject in that part relating to births and in that relating to deaths, the still-births correspond by number and by sex, as may be seen by comparing Table XV., of births, page 62, with Exhibit 2, below. This has increased the number of still-births compiled for 1874, because some are returned among the deaths that were not returned among the births, and *vice versa*, so that in any comparison of the different years for which data are shown in Exhibit 2, these facts should be borne in mind. The showing for the year 1874, however, is much more reliable, as presenting the number of still-births which were returned for 1874, in the combined returns of births and deaths.

According to the returns, in 1874, 3.71 per cent. of the deaths and 1.49 per cent. of the births in Michigan were of still-born children.

EXHIBIT 2.—*The Relation of Still-births to all Persons returned as having died in Michigan during the several Years 1868 to 1874, inclusive, according to the Returns of Deaths, (for 1874 corrected by means of the Returns of Births).*

	TOTAL DEATHS AND STILL-BIRTHS.—YEARS.						
	1868.	1869.	1870.	1871.	1872.	1873.	1874.
Total Number of Deaths.....	6,326	9,145	10,766	9,728	13,371	14,258	12,500
Number of Still-births.....	* 46	* 129	* 226	* 268	* 204	* 274	464
Per Cent. of Still-births to Total Deaths..	.73	1.41	2.10	2.75	1.53	1.22	3.71

* As per returns of deaths.

DEATHS—INFANT MORTALITY.

[illegible]

Excluding 3 males and 3 females, month of death unknown; and 30 deaths of persons of unknown sex,—35 in all.

EXHIBIT 3.—Of the Children Born in 1873, according to the Returns, the Number that Died during the Year 1873; the Number that Died during the Year 1874, under One Year of Age; the Total Number that Died under One Year of Age; and Per Cent. of Decedents aged under One Year to the Children Born in 1873.

MONTHS OF BIRTHS.	Births in 1873, as Returned. ^a	CHILDREN BORN IN 1873.				MALES BORN IN 1873.				FEMALES BORN IN 1873.			
		Died during the Year 1873.	Died under 1 Year during the Year 1874.	Per Cent. of Deaths under 1, to Births.	Per Cent. of Deaths under 1, to Births.	Died during the Year 1873.	Died under 1 Year during the Year 1874.	Per Cent. of Deaths under 1, to Births.	Per Cent. of Deaths under 1, to Births.	Died during the Year 1873.	Died under 1 Year during the Year 1874.	Per Cent. of Deaths under 1, to Births.	Per Cent. of Deaths under 1, to Births.
Total.....	34,538	2,709	625	8.34	9.65	1,513	343	1,856	10.38	1,198	293	1,473	8.91
January.....	2,112	281	.....	281	13.30	156	.....	156	14.43	125	.....	125	12.15
February.....	2,249	281	6	286	12.72	158	3	161	13.78	123	2	125	11.64
March.....	2,847	311	11	322	11.31	1,469	5	177	12.05	139	6	145	10.59
April.....	2,711	288	15	303	11.18	1,400	7	164	11.71	131	8	139	10.66
May.....	2,724	241	26	267	9.56	1,445	10	158	9.53	113	16	129	9.63
June.....	2,689	223	34	257	9.59	1,316	21	144	10.94	100	13	113	8.84
July.....	2,915	248	39	287	9.85	1,533	145	23	10.89	103	17	120	8.72
August.....	3,842	221	63	274	8.90	1,746	113	25	133	106	28	136	8.54
September.....	3,436	203	67	270	7.86	1,778	101	41	142	103	20	123	7.76
October.....	3,165	149	125	274	8.66	1,603	87	72	9.92	62	63	115	7.37
November.....	3,017	133	114	247	8.19	1,571	91	60	9.61	42	54	96	6.67
December.....	3,351	130	136	266	7.94	1,767	83	77	9.00	48	59	107	6.77

^a Excluding 70 in Unknown month, —28 Males, 39 Females, and 3 unknown sex.

Exhibit 3 shows, by months, of the number of children born in 1873 the number who died during the year 1873, the number who died in 1874 aged under one year, and the number and per cent. who died aged under one year. The largest per cent. of children born in 1873 who died aged under one year to the total number of births returned as having occurred in 1873 was in January. Of the children born in the first four months of the year, according to the returns, much more than the average per cent. died before reaching the age of one year; that is, children born during the fore part of the year were most liable to die before reaching the age of one year, while those born in the latter part of the year were most likely to live beyond their first "birthday." This might be only apparent and due to a more complete return of the births in the later months of the year, but it holds true in only the exhibit for 1874; in the corresponding exhibits for previous years, the per cent. of the children born in the several months who die before reaching the age of one year is shown to be quite uniform throughout the year. The excess of per cent. of males over females who were born in 1873 and died under one year of age is less than for either of the preceding years, the excess for each year being: 1873, 1.47 per cent.; 1872, 1.69 per cent.; 1871, 2.03 per cent.

Exhibit 4 is believed to be a very valuable one in plan, because showing according to evidence in the returns the relative influence of season upon the mortality of children born in each month of 1873, who died under one year of age. The first column of figures at the left contains the number of children born in 1873 and in each month of that year who died before reaching the age of one year; and the columns at the right of the first column show the months of the years 1873 and 1874 in which the children who were born in each month of the year 1873, and who died aged under one year, died, giving the number of such deaths in each month. The first diagonal column shows that a very large proportion of the children born die during the month of birth, or before they are one month old. At the bottom of the exhibit is shown the number of children who were born in 1873 who died at each month of age under one year; and the number of such children who died during the month of birth, or under one month of age, was 1,278, which is 38.33 per cent. of all the children born in 1873 who died aged under one year, according to the returns of births and deaths. It may seem, at first thought, that the still-births, which are included in the exhibit, will vitiate the showing; but inasmuch as they are included in the returns both of births and deaths, the relation will be maintained, so that the last column to the right of the exhibit, containing the per cent. of the children who died during the month of birth to the children born in each month of the year 1873 who died under one year of age, is, if the returns are reliable, a very valuable one, showing the relative danger of death to the children born in each month. Of course the value of this column depends greatly upon the uniformity of accuracy and completeness in the enumeration and returns of births and deaths, and it has seemed that the returns of births were usually rather more complete than the returns of deaths; but, proceeding upon the hypothesis that the errors and omissions in the enumeration of births are proportional to those in the enumeration of deaths, the children born in September are in the greatest danger of dying during the month of birth, while those born in January are most likely to live past the age of one month; that is, the chances of "bridging over" the first month are greatest for children born in January, and least for those born in September. This column is an additional feature in Exhibit 4, the whole exhibit being the first of the kind which has come to the notice of the compiler.

Exhibit 5 shows, by sex, by months, the number of births, the number of decedents aged under one month, and the per cent. of such decedents to births. The per cent. of such deaths to births for the year is greater for males than for females. The per cent. of the total deaths of persons aged under one month to the total births is greatest in June and August, least in November; among the males, the greatest per cent. is in December, the least in January; and among the females, the greatest per cent. is in August, the least in June. One interesting point of evidence in this exhibit is that 4.42 per cent. of the children returned as having been born in 1874 died aged under one month. This includes still-born children.

EXHIBIT 5.—*The Relation by Months, by Total, and by Sex, of the Decedents Aged Under One Month to the Births in Michigan during the Year ending December 31, 1874.*

SEX, ETC., SPECIFIED.	YEAR, 1874.	MONTHS, 1874.												
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Unk.	
Total.....	{ Births.....	1,889	1,954	2,462	2,464	2,586	2,538	2,761	3,077	2,972	2,726	2,726	2,921	45
	{ Deaths aged under one month... ^a	71	78	92	118	132	107	113	157	139	125	97	145	3
	{ Per Cent. of Deaths to Births...	3.74	3.99	3.74	4.79	5.10	4.18	4.09	5.10	4.68	4.59	3.56	4.96	6.67
Males.....	{ Births.....	993	1,034	1,298	1,301	1,336	1,331	1,482	1,587	1,544	1,426	1,388	1,540	23
	{ Deaths aged under one month...	33	41	51	75	78	71	68	83	68	69	62	89	1
	{ Per Cent. of Deaths to Births...	3.32	3.96	3.92	5.76	5.84	5.33	4.59	5.23	4.40	4.84	3.75	5.91	4.35
Females...	{ Births.....	905	916	1,160	1,162	1,247	1,224	1,275	1,486	1,426	1,295	1,333	1,373	17
	{ Deaths aged under one month...	38	33	38	43	52	36	40	73	63	52	42	53	2
	{ Per Cent. of Deaths to Births...	4.20	3.60	3.28	3.70	4.17	2.94	3.13	5.59	4.77	4.02	3.15	3.86	11.76
Unknown.	{ Births.....	49	1	4	1	3	3	4	4	2	5	5	8	5
	{ Deaths aged under one month...	28	4	3	.....	2	.....	5	1	3	4	3	3	.....

^a Still births included.

According to Table IX., and the corresponding tables for previous years, there were more decedents aged one hundred years and over in Michigan in 1874 than in either of the preceding years 1870-1873, the order of the years, greatest number first, being: 1874, 10; 1870, 8; 1871, 7; 1872, 4; 1873, 4. Of the ten centenarians who died in 1874, six were born in the United States, three in Ireland, and one in Scotland; and the assigned cause of death of nine of them was Old Age, and of one, Dropsy.

TABLE IX.—Deaths in Michigan, during the Year 1874, of those Aged One Hundred Years and Over, exhibiting all the details concerning them included in the Returns.

NAMES.	Sex.	Color.	Married, Single, or Widowed.	Birthplace.	Age.			Occupation.	Place of Death.		DATE OF DEATH.		Cause of Death.
					Years.	Mo's.	Days.		Town.	County.	Month.	Day.	
Jane Bawgo-Zhick...	Female..	Indian..	.....	Michigan.....	105	.....	.....	.....	Isabella.....	Isabella.....	July.....	23	Old Age.
Basil Harrison.....	Male....	White..	.....	Maryland.....	103	6	15	Farmer.....	Prairie Ronde	Kalamazoo..	August....	30	Old Age.
Permetia Goodrich...	Female..	White..	Widow..	Massachusetts..	100	8	12	Farmer's wife	Bruce.....	Macomb.....	March.....	12	Old Age.
Patrick Keegan.....	Male....	White..	Married..	Ireland.....	102	.....	.....	Farmer.....	Monroe.....	Monroe.....	December..	9	Old Age.
Ellen Ann McDougald	Female..	White..	Widow..	Scotland.....	100	Unk.	Unk.	House-keeper	Austin.....	Sanilac.....	September	8	Old Age.
"Michigaum".....	Male....	Indian..	Single..	Michigan.....	104	.....	.....	Trapper.....	Manistique...	Schoolcraft..	June.....	20	Old Age.
Elizabeth Walt.....	Female..	White..	Widow..	Vermont.....	102	.....	.....	House-keeper	Burchville...	St. Clair....	May.....	19	Old Age.
Daniel Ward.....	Male....	White..	Widower..	Ireland.....	106	.....	.....	Laborer.....	Detroit.....	Wayne.....	January...	25	Old Age.
Mary A. Warr.....	Female..	Black..	Widow..	Virginia.....	100	.....	.....	House-keeper	Detroit.....	Wayne.....	December..	5	Dropsy.
Jane McFarlan.....	Female..	White..	Widow..	Ireland.....	101	.....	.....	None.....	Livonia.....	Wayne.....	September	10	Old Age.

Exhibit H shows the counties and townships from which no returns of death for 1874 were received by the State Department, representing a population in 1870 of 12,100. This number is larger than the number shown in the corresponding exhibit for 1873, but much less than the number for 1871 or 1872. The 12,100 inhabitants which are not represented in the returns of deaths for 1874 would, at the average death-rate, contribute about 100 deaths to the number returned; and this is enough to probably influence some important teaching of these statistics. It is, therefore, to be regretted that so

many of the supervisors and assessors neglect the important duty of making proper returns. Every supervisor and assessor in the State should make an official return to his county clerk whether or not any births or deaths occurred within his jurisdiction.

EXHIBIT H.—Counties and Townships from which no Returns of Deaths for 1874 were received by this Department, showing Population, June 1, 1870, by Sex, Color, and Nativity.

COUNTIES.	TOWNSHIPS.	POPULATION, JUNE 1, 1870.											
		COLOR OR RACE.						NATIVITY.					
		TOTAL.			WHITE.			BLACK.			MULATTO.		
		Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
Total		12,100	6,678	5,422	11,374	6,323	5,052	10	5	5	26	14	12
Alpena	Ossineke	144	91	53	144	91	53						
Antrim	Otaego Lake.. ^{a,b}												
Bay	Clayton												
Cheboygan	{ Burt	72	34	38	7	5	2						
	{ Inverness	1,294	730	564	1,235	703	533						
Chippewa	{ Sugar Island	238	133	105	150	82	68						
	{ Warner	238	137	101	188	99	89						
	{ Masonville	152	105	47	152	105	47						
Delta	{ Sack Bay												
	{ Winona												
Emmet	Bear Creek	254	134	120	18	13	5						
Grand Traverse	Whitewater	510	271	239	510	271	239						
Gratiot	Elba	323	179	144	323	179	144						

^a County Clerk says there were no returns of Deaths from the Supervisor. ^b Organized since Census was taken.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT H.—CONTINUED.—*Townships from which no Returns were Received.*

COUNTIES.	TOWNSHIPS.	POPULATION ON JUNE 70.																
		TOTAL.		COLOR OR RACE.						NATIVITY.								
		Total.	Fe. males.	WHITE.		BLACK.		MULATTO.		INDIAN.		NATIVE.		FOREIGN.				
		Total.	Fe. males.	Total.	Males.	Fe. males.	Total.	Males.	Fe. males.	Total.	Males.	Fe. males.	Total.	Males.	Fe. males.	Total.	Males.	Fe. males.
Huron.	Bloomfield..... ^a																	
	Brookfield..... ^a	116	68	48	116	68	48								34	25	34	25
	Mende..... ^a	212	117	95	212	117	95								40	37	77	58
	Sand Beach..... ^a	668	375	291	665	374	291	1	1						179	166	196	125
Iosco.	White Rock..... ^a	270	142	128	270	142	128								92	85	50	43
	Baldwin..... ^a																	
Isabella.	Chippewa..... ^a	815	468	347	815	468	347								152	135	16	12
	Rolland..... ^a	210	108	102	198	100	98								101	97	7	5
	Sherman..... ^a	134	83	51	134	83	51								65	59	18	12
	Union..... ^a	657	320	337	657	320	337								282	289	38	48
Mackinac.	Holmes..... ^a	937	457	480	828	447	381								356	364	131	86
	Arcadia..... ^a	175	93	82	175	93	82								81	74	12	8
Manistee.	Chandler..... ^a	180	106	84	180	106	84								63	64	43	30
	Galliee..... ^a	203	103	100	203	103	100								61	64	42	36
Manitou.	South Manitou..... ^a	76	38	38	76	38	38								24	27	14	11
	Forayth..... ^a																	
Marquette.	Branch..... ^a																	
	Free Soil..... ^a	143	79	63	142	79	63								65	49	14	14
Mason.	Hamlin..... ^a	134	80	44	117	77	40								35	28	45	16
	Lincoln..... ^a	165	99	66	165	99	66								51	42	44	24
	Summit..... ^a	257	137	120	257	137	120								98	90	39	30
	Victory..... ^a	314	179	135	293	168	125	9	4	5					146	106	33	27

DEATHS—DELINQUENT COUNTIES AND TOWNSHIPS.

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[illegible]

* County Clerk says there were no returns of Deaths from the Supervisor. b Organized since Census was taken. c No population reported.

According to the returns, the number of inhabitants among whom there were no deaths in 1874 is much greater than in 1873, but smaller than in 1871 or 1872. The returns, however, are not very reliable in this regard, some of the county clerks seeming to conclude that because there were no returns from the supervisor there were no deaths, which inference is not safe to be drawn. It seems hardly credible, for instance, that the township of Big Prairie, in Newaygo county, containing 402 inhabitants in 1870, or Croton, in the same county, containing 923 inhabitants in 1870, should not have any deaths in 1874; and yet it is so reported to this Department by the county clerk. It is probable that if the returns were properly and correctly made the number of inhabitants among whom it is reported that there were no deaths would be much less.

EXHIBIT I.—*Counties and Townships in which it is Reported that no Deaths Occurred in 1874.*

COUNTIES.	TOWNSHIPS.	POPULATION, JUNE 1, 1870.		
		Total.	Males.	Females.
Total		2,539	1,427	1,112
Antrim	Forest Home..... ^a			
Benzie	Colfax	71	36	35
	Homestead.....	163	81	82
Charlevoix	Boyne Valley..... ^a			
Clare	Winfield..... ^a			
Iosco	Grant	107	63	44
	Thompson..... ^a			
Kalkaska.....	Cold Springs..... ^a			
	Wilson..... ^a			
Keweenaw.....	Grant	152	75	77
	Isle Royal..... ^b			
Lake	Killbuck..... ^a			
	Webber..... ^a			
Leelanaw.....	Solon..... ^a			
Mecosta	Colfax	146	98	48
	Fork	163	91	72
Menominee.....	Cedarville.....	196	148	48
	Ingallston..... ^a			
Missaukee.....	Caldwell..... ^a			
	Clam Union..... ^a			
	Pioneer..... ^a			
	Riverside..... ^a			
	West Branch..... ^a			
Newaygo.....	Big Prairie.....	402	221	181
	Croton	923	499	424
	Norwich..... ^a			
Ontonagon.....	Algonquin.....	54	30	24
Osceola	Cedar..... ^a			
Sanilac	Moore	113	68	45
	Watertown.....	49	27	22
Wexford	Antioch..... ^a			
	Cedar Creek..... ^a			
	Cherry Grove..... ^a			
	Greenwood..... ^a			
	Henderson..... ^a			

^a Organized since census was taken.

^b No population reported.

TABLE X.—*Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having Occurred in Michigan during the year 1874, and in each Month of the Year; also the Number of Deaths at each Period of Age.*

STATE AND COUNTIES.	SEX.	Months, 1874.												Ages, 1874.																			
		Year, 1874.												Under 5.																			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
State.....	Total.....	12,500	655	672	919	1102	1071	866	965	1388	1517	1211	968	1120	46	5138	594	339	530	618	514	434	440	390	384	397	398	460	454	434	318	407	231
	Males.....	6,965	335	349	500	606	551	471	524	736	802	640	517	606	28	2928	321	183	235	273	227	184	189	202	224	231	232	293	272	252	191	204	124
	Females..	5,504	320	319	416	496	518	395	435	651	711	567	448	510	18	2210	273	176	295	345	287	250	251	188	160	166	166	167	182	182	127	203	106
	Unknown	31	4	3	4	2	2	6	1	4	4	3	4	3	4	30
Alcona.....	Total.....	11	1	1	1	1	2	3	1	1	7	1	1
	Males.....	3	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	7	.....	1	1	.....	.....	1	.....	2	1	1	.....	4	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Unknown	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Allegan.....	Total.....	311	10	22	28	21	25	17	31	55	28	24	27	1	120	12	11	11	11	11	11	16	13	11	8	11	18	17	9	11	10	9	2
	Males.....	174	5	12	13	11	15	10	13	35	15	13	14	.....	68	6	5	4	4	7	11	7	6	6	6	8	11	6	6	6	5	2
	Females..	137	5	10	9	10	10	7	18	20	13	11	13	1	52	6	6	7	7	4	5	6	5	2	5	10	6	3	5	4	4	.....
	Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alpena.....	Total.....	32	1	2	1	3	1	8	7	4	3	2	20	1	3	1	1	1	2	1	1	1
	Males.....	19	1	.....	2	1	1	.....	3	6	2	3	.....	10	.....	.....	.....	.....	3	1	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....
	Females..	13	.....	.....	.....	2	1	.....	5	1	2	.....	2	10	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Antrim.....	Total.....	33	3	3	2	1	6	5	4	2	4	3	18	1	1	2	2	2	1	2	1
	Males.....	23	1	3	.....	1	.....	4	3	4	2	4	.....	1	15	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	10	2	.....	.....	1	1	2	.....	.....	.....	.....	.....	2	3	.....	.....	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Unknown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

• For counties and townships not represented by returns of deaths in 1874, see Exhibit H, pages 149-151.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	MONTHS, 1874.												AGE, 1874.																					
		Year, 1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
Baraga.....	Total.....	10	3	2	1	1	1	5	2	1	1
	Males.....	6	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females..	4	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barry.....	Total.....	195	9	11	18	22	19	9	9	13	25	22	17	21	.....	67	10	2	5	8	7	10	8	6	7	12	8	11	9	13	6	6	.....	.....
	Males.....	105	6	4	9	16	9	6	5	10	14	8	9	9	.....	44	5	1	2	2	2	2	1	5	3	6	4	7	6	11	2	2	.....	.....
	Females..	89	3	7	8	6	10	3	4	3	11	14	8	12	.....	22	5	1	3	6	5	8	7	1	4	6	4	4	3	2	4	4	.....	.....
Bay.....	Total.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males.....	250	10	10	12	19	18	8	24	43	36	29	23	17	1	135	20	10	9	11	4	16	9	6	2	9	1	2	3	5	4	3	1	.....
	Females..	137	6	5	7	6	10	6	12	28	18	13	15	10	1	75	11	5	4	4	.....	10	7	4	.....	5	.....	.....	2	4	4	1	1	.....
Benzie.....	Total.....	113	4	5	5	13	8	2	12	15	18	16	8	7	.....	60	9	5	5	7	4	6	2	2	2	4	1	2	1	1	.....	2	.....	
	Males.....	26	1	2	2	2	1	2	2	2	2	5	2	3	.....	15	.....	1	.....	.....	4	.....	.....	.....	1	.....	2	1	2	.....	.....	.....	.....
	Females..	7	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	3	.....	3	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....
Berrien.....	Total.....	19	.....	1	2	2	1	2	2	2	1	5	1	.....	.....	12	.....	1	.....	.....	2	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	.....	.....
	Males.....	335	20	29	39	41	39	35	18	38	47	34	37	24	3	141	20	5	24	18	11	15	10	21	23	16	14	16	17	17	10	12	5	.....
	Females..	219	14	12	27	16	28	21	8	18	27	16	14	16	2	82	11	4	11	9	2	7	8	13	16	8	5	12	10	9	6	4	2	.....
Berrien.....	Total.....	176	6	8	12	25	11	14	10	20	20	18	23	8	1	59	9	1	13	9	9	8	2	8	7	8	9	4	7	8	4	8	3	
	Males.....	
	Females..	

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

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Branch.....	Total.....	220	12	14	17	19	22	19	15	26	23	21	14	17	1	70	14	9	9	10	7	8	4	1	8	7	14	11	10	9	10	7	8
	Males.....	114	8	7	11	8	12	12	9	11	12	11	6	6	1	36	7	5	4	6	5	2	1	...	5	4	8	10	5	6	3	2	
	Females..	106	4	7	6	11	10	7	6	15	10	10	8	11	...	33	7	4	5	13	2	6	3	1	3	3	6	1	5	4	4	1	
	Unknown	1	..	..	..	..	..	..	..	..	1	...	..	..	..	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Calhoun.....	Total.....	300	19	20	23	37	23	23	21	28	41	25	15	25	..	80	13	5	10	9	20	8	7	17	10	1	24	11	18	21	17	2	
	Males.....	154	10	5	10	22	12	12	11	12	27	12	8	13	..	39	4	2	4	6	7	4	3	5	3	6	14	8	12	14	12	10	1
	Females..	146	9	15	13	15	11	11	10	16	14	13	7	12	..	41	9	3	6	3	13	4	4	12	7	5	10	3	6	7	5	7	1
	Unknown	141	2	7	11	17	21	7	7	9	19	14	18	9	..	41	6	3	6	7	3	5	5	4	6	8	9	6	7	12	9	3	8
Cass.....	Total.....	76	..	5	8	9	8	2	4	5	10	9	11	5	..	22	3	2	3	4	..	..	..	3	1	3	5	4	6	9	2	3	1
	Males.....	65	2	2	3	8	13	5	3	4	9	5	7	4	..	19	3	1	3	3	3	5	2	3	3	3	4	2	1	2	..	6	2
	Females..	21	1	2	2	1	2	..	3	2	2	2	..	3	..	9	3	2	1	..	2	2	..	1	1	..	..	..	..	..	..	..
	Unknown	9	..	1	..	1	..	..	2	1	1	2	..	1	..	5	1	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Charlevoix..	Total.....	12	1	1	2	..	2	..	1	2	1	..	..	2	..	4	2	..	1	..	2	1	..	1	1	..	..	..	..	..	..	..
	Males.....	9	..	1	..	1	..	..	2	1	1	2	..	1	..	5	1	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..
	Females..	12	1	1	2	..	2	..	1	2	1	..	..	2	..	4	2	..	1	..	2	1	..	1	1	..	..	..	..	..	..	..
	Unknown	24	1	3	2	2	2	1	3	4	1	...	4	1	...	18	..	1	...	2	...	1	...	1	...	1	...	...	...	...	...	...
Cheboygan..	Total.....	12	1	2	1	1	..	1	1	2	..	..	3	..	9	..	..	..	1	..	..	..	1	...	1	...	...	...	...	...	...	...
	Males.....	12	..	1	1	1	2	..	2	2	1	...	1	1	9	..	1	..	1	..	1	...	...	...	...	...	...	...	...	...	...	...
	Females..	8	1	1	1	..	1	..	..	..	..	2	2	..	...	5	..	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...
	Unknown	5	1	1	1	..	1	..	..	..	1	...	..	3	..	8	..	..	..	..	..	1	...	...	...	...	...	...	...	...	...	...
Chippewa....	Total.....	3	..	..	..	..	..	..	..	..	1	2	..	..	9	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Males.....	28	..	1	..	2	..	..	1	6	4	5	4	2	1	12	4	1	1	2	1	4	..	1	1	...	...	...	...	...	...	...	...
	Females..	16	..	1	..	1	..	..	1	4	3	2	2	2	..	8	1	..	..	2	1	2	..	..	1	...	...	...	...	...	...	...	...
	Unknown	12	1	2	2	1	3	2	..	1	4	3	1	1	..	2	2	..	1
Clare.....	Total.....	12
	Males.....	12
	Females..	12
	Unknown	12

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Gladwin....	Females..												1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1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DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE. 159

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	Months, 1874.												Ages, 1874.																					
		Year, 1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
Mackinac.....	Total.....	16	3	3	2	2	2	2	2	1	1	2	1	2	4	1	2	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Males.....	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Females..	10	2	2	1	1	1	1	1	1	1	1	1	1	3	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Macomb.....	Total.....	270	17	25	25	38	26	19	15	22	26	18	17	22	93	23	10	9	10	10	6	14	7	17	6	6	10	20	9	7	11	2	2	2	
	Males.....	141	11	18	17	18	10	9	6	14	12	9	6	11	60	10	4	4	4	4	2	4	5	8	5	2	7	10	7	5	5	2	2	2	
	Females..	128	6	7	8	20	16	10	9	8	13	9	11	11	32	13	6	5	6	6	8	6	10	5	9	1	3	10	2	2	6	—	—	—	
	Unknown	1	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Manistee.....	Total.....	70	2	3	9	3	8	3	4	7	6	5	7	12	1	44	2	2	1	4	2	2	2	2	1	2	1	1	1	1	1	1	1	1	
	Males.....	33	1	4	3	1	1	1	1	4	5	2	4	6	1	21	1	2	—	1	1	1	1	2	1	1	—	—	—	—	—	—	—	—	
	Females..	37	2	2	5	7	2	3	3	1	3	3	3	6	—	23	1	—	1	3	1	1	1	1	—	1	1	1	1	1	2	1	1	1	
Manitou.....	Total.....	9	1	2	1	—	—	1	1	1	1	1	1	—	—	—	1	1	—	2	—	—	—	—	1	1	1	1	1	1	1	1	1	1	
	Males.....	7	1	2	1	—	—	—	—	1	1	1	1	—	—	—	1	1	—	1	—	—	—	—	1	1	1	1	1	1	1	1	1	1	
	Females..	2	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Marquette.....	Total.....	254	13	12	16	22	12	18	28	34	26	25	18	30	148	14	5	9	11	12	15	13	4	4	4	3	4	3	3	3	1	1	1	1	
	Males.....	142	9	8	9	17	5	9	10	16	12	14	7	17	79	6	4	6	7	7	7	7	2	2	2	1	3	3	2	1	1	1	1	1	
	Females..	112	4	4	7	5	7	9	9	18	14	11	11	13	69	8	1	3	4	5	8	6	2	—	—	2	2	1	1	1	1	1	1	1	

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE. 161

[illegible]

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	Months, 1874.												Age, 1874.																				
		Year, 1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Newaygo.....	Total.....	50	1	4	3	3	6	2	7	5	7	6	4	24	3	1	4	1	1	1	2	1	1	1	1	1	1	1	1	2	1	2	3	
	Males.....	28	1	1	2	2	5	1	2	2	3	4	3	13	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	
	Females.....	22	3	1	1	1	1	1	5	3	4	2	1	11	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	2	1	2	1	
Oakland.....	Total.....	255	14	14	28	33	19	18	20	29	30	30	19	30	1	85	10	8	12	18	5	11	5	13	10	14	10	16	15	18	11	19	5	
	Males.....	158	7	6	14	20	7	13	11	14	16	12	9	22	1	50	8	6	4	8	4	4	1	4	6	5	7	4	11	8	11	5	13	3
	Females.....	127	7	8	14	7	12	5	9	15	14	18	10	8	35	2	35	2	8	10	1	10	1	7	5	7	6	5	7	7	6	6	2	2
Oceana.....	Total.....	80	2	7	5	4	6	4	2	12	22	11	6	6	2	54	5	1	2	2	5	1	3	1	6	2	2	2	2	2	1	2	2	2
	Males.....	43	2	5	4	2	3	1	1	6	11	3	3	3	2	28	4	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1
	Females.....	46	2	1	2	2	3	3	2	6	11	8	3	3	2	26	1	1	1	2	4	1	1	1	5	2	2	2	2	2	1	1	1	1
Ontonagon.....	Total.....	28	2	3	1	3	4	2	4	4	1	3	2	1	15	3	3	3	1	2	1	2	1	1	1	3	2	2	2	2	2	2	2	2
	Males.....	12	2	1	1	2	1	1	1	2	1	1	1	1	6	1	1	1	1	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2
	Females.....	16	2	2	2	1	3	1	3	2	3	2	2	1	9	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2
Osceola.....	Total.....	50	4	4	7	4	3	5	7	7	6	2	1	27	2	3	3	3	5	2	2	1	3	1	3	1	1	1	1	1	1	1	1	1
	Males.....	27	3	1	4	3	2	2	2	6	4	2	2	16	2	1	2	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1
	Females.....	23	1	3	3	1	3	3	5	1	2	2	1	11	2	2	1	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	2	2	2
Ottawa.....	Total.....	298	12	11	17	27	18	16	34	49	33	26	43	148	19	6	9	13	12	11	6	8	6	8	6	10	7	13	8	11	4	1	1	1
	Males.....	167	5	6	8	15	11	12	20	24	18	15	27	94	8	3	5	6	2	4	2	4	2	4	3	3	6	4	7	5	7	3	1	1
	Females.....	131	7	6	5	9	12	7	4	14	25	15	11	16	54	11	3	4	7	10	7	4	4	2	4	3	4	3	6	3	4	3	4	1

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

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DEATHS—BY COLOR, BY SEX.

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The per cent. of white decedents to all decedents in 1874 is less than the per cent. of white inhabitants to all inhabitants in 1870, as shown by Table XI. A study of the last column of the table will show that the death-rate is less than the average among the white decedents, and more than the average among the Indians and among the African race, that among the Indians being the largest,—2.27 per cent.

TABLE XI.—*Deaths in Michigan during the Year 1874, distinguishing the Color by Number and Proportion of each Sex, and by Sex, the Per Cent. of Deaths of each Color to Total of All Colors, and Per Cent. of Inhabitants of each Color to Total of All Colors, June 1, 1870.*

COLOR.	SEX.	Population, June 1, 1870. ^a	Number of Deaths Returned for 1874.	Per Cent. of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.	Per Cent. of Deaths of each Color to Total of All Colors, by Sex.	Per Ct. of Inhabit- ants of each Color to Total of All Colors, by Sex, June 1, 1870. ^a	Death- rate,— Per Cent. of Deaths in 1874 to Population in 1870.
All Colors	Total.....	1,172,182	12,500	-----	-----	100.00	100.00	1.07
	Males.....	611,573	6,065	53.45	114.83	100.00	100.00	-----
	Females..	560,609	5,804	46.55	-----	100.00	100.00	-----
	Unknown.....	-----	31	-----	-----	-----	-----	-----
White	Total.....	1,156,377	12,203	-----	-----	97.62	98.65	1.06
	Males.....	603,354	6,505	53.42	114.66	97.60	98.65	-----
	Females..	553,023	5,673	46.58	-----	97.74	98.65	-----
	Unknown.....	-----	25	-----	-----	80.64	-----	-----
Black	Total.....	5,511	93	-----	-----	.74	.47	1.69
	Males.....	3,042	48	51.61	106.67	.72	.50	-----
	Females..	2,469	45	48.39	-----	.78	.44	-----
Mulatto	Total.....	6,197	40	-----	-----	.32	.53	.65
	Males.....	3,126	21	52.50	110.53	.32	.51	-----
	Females..	3,071	19	47.50	-----	.33	.55	-----
Indian	Total.....	4,097	93	-----	-----	.74	.35	2.27
	Males.....	2,051	49	52.69	111.36	.73	.34	-----
	Females..	2,046	44	47.31	-----	.76	.36	-----
Unknown	Total.....	-----	71	-----	-----	.57	-----	-----
	Males.....	-----	42	64.62	182.61	.63	-----	-----
	Females..	-----	23	35.38	-----	.39	-----	-----
	Unknown.....	-----	6	-----	-----	19.36	-----	-----
Black and Mulatto	Total.....	11,708	133	-----	-----	1.06	1.00	1.14
	Males.....	6,168	69	51.88	107.81	1.03	1.01	-----
	Females..	5,540	64	48.12	-----	1.10	.99	-----

^a Population represented by returns of deaths in 1874.

TABLE XII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Color of All Persons returned as having Died in Michigan during the Year ending December 31, 1874.*

STATE AND COUNTIES.	ALL COLORS, 1874.				WHITE.			BLACK.			MULATTO.			INDIAN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
STATE.....	12,500	6,665	5,804	31	13,903	6,505	5,673	983	48	45	40	21	19	93	40	44	71	42	23
Alcona.....	11	3	7	1	11	3	7												
Allegan.....	311	174	137		308	173	135				2	2		1		1			
Alpena.....	32	19	13		32	19	13												
Antrim.....	33	23	10		32	22	10							1	1				
Baraga.....	10	6	4		10	6	4												
Barry.....	196	105	89	1	195	105	89												
Bay.....	250	137	113		242	133	109	3	1	1				6	3	3			
Benzie.....	26	7	19		26	7	19												
Berrien.....	266	219	176		292	213	174	2	1	1	1	1	1						
Branch.....	230	114	105	1	219	114	104				1		1						
Calhoun.....	200	154	146		298	153	145	2	1	1									
Cass.....	141	76	65		133	73	60	6	3	3	3	1	2						
Charlevoix.....	21	9	13		18	9	9				1		1	2		2			
Cheboygan.....	24	13	13		21	11	10							3	1	2			
Chippewa.....	8	5	3		5	4	1							3	1	2			
Clare.....	23	16	13		28	16	13							3	1	2			
Clinton.....	196	103	91	1	194	103	90				1		1						
Delta.....	29	23	16		37	23	15							2	1	1			

DEATHS—BY COUNTIES, BY COLOR, BY SEX.

[illegible]

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

COUNTIES.	ALL COLORS, 1874.				WHITE.				BLACK.			MULATTO.			INDIAN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Manistee.....	70	33	37	.....	70	33	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manitou.....	9	7	2	.....	9	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marquette.....	254	143	119	.....	250	140	110	.....	.....	.....	.....	3	2	1	1	.....	.....	.....	.....	.....	.....
Mason.....	47	28	19	.....	39	23	16	.....	.....	.....	.....	.....	.....	.....	8	5	3	.....	.....	.....	.....
Mecosta.....	79	34	45	.....	79	34	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Menominee.....	2	2	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midland.....	43	18	25	1	43	18	25	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Missaukee.....	3	2	1	.....	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Monroe.....	293	149	111	2	293	149	111	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montcalm.....	191	96	95	.....	191	96	95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Muskegon.....	170	86	83	1	170	86	83	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newaygo.....	50	28	22	.....	50	28	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oakland.....	285	153	127	.....	280	155	125	.....	5	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oceana.....	39	43	46	.....	36	43	46	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Ontonagon.....	26	13	13	.....	26	13	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Osceola.....	50	27	23	.....	49	27	22	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ottawa.....	298	157	131	.....	292	154	128	.....	4	3	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Presque Isle.....	6	2	3	.....	6	2	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saginaw.....	598	293	275	.....	549	284	265	.....	3	3	1	.....	.....	.....	16	7	9	.....	.....	.....	.....
Sanilac.....	180	93	67	.....	159	92	67	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Schoolcraft.....	30	15	5	.....	14	11	3	.....	.....	.....	.....	.....	.....	.....	6	4	2	.....	.....	.....	.....

[illegible]

a 1 "White and Indian." b 1 "Colored." c 1 White and Indian.

Any statement of the death-rate by nativity, based upon the total population and the total number of deaths, is unsatisfactory, because the proportion of the native and foreign-born inhabitants is so different at different ages. The native-born population includes nearly all the children, among whom the mortality is very great, whereas the foreign-born inhabitants are chiefly of the middle ages. To avoid the erroneous impression made by stating the total death-rate by nativity, by sex, as is done in Exhibit 6, following, Exhibit 1 was made, which shows the death-rate by nativity, by sex, based upon the population of Michigan in 1870 and the deaths in 1874, by ages and periods of age, in years.

By this exhibit, it appears that at each age under ten years, the death-rate was greater among the native-born of both sexes; between the ages of ten and fifteen years, the greater death-rate was among the foreign-born of both sexes; between the ages of fifteen and thirty years, the greater death-rate was among the native-born of both sexes; between the ages of thirty and forty years, the greater death-rate among the females was of the native-born, and among the males, the greater death-rate was of the foreign-born; between the ages of forty and ninety years, the larger death-rate was among the foreign-born of both sexes; between the ages of ninety and one hundred years, the larger death-rate among the males was of the native-born, and the larger death-rate among the females was of the foreign-born; at the age of one hundred years or over, the death-rate was larger among the males of the foreign-born, and among the females the death-rate was the same of the native as of the foreign-born. Then taking a larger view of the subject, the teaching of this exhibit is that, during the first thirty years of life, the death-rate in Michigan was greater among the native-born, but after that period, the death-rate was larger among the foreign-born inhabitants. The average death-rate of the seventeen periods of age was greater among the males of the native-born, and among the females of the foreign-born.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT 1.—By Nativity and Sex, and Periods of Age, the Number of Inhabitants of Michigan, June 1, 1870, the Number of Deaths in 1874, and the Number of Deaths to 100 Living.

AGES IN YEARS AND PERIODS.	INHABITANTS OF MICHIGAN, JUNE 1, 1870. ^a						DEATHS IN MICHIGAN IN 1874.						DEATH-RATE: NO. OF DEATHS TO 100 LIVING.					
	ALL NATIVITIES.			NATIVE.			FOREIGN.			ALL NATIVITIES. ^b			NATIVE. ^c			FOREIGN.		
	Males.		Fe- males.	Males.		Fe- males.	Males.		Fe- males.	Males.		Fe- males.	Males.		Fe- males.	Males.		Fe- males.
	617,745	569,314	447,015	469,084	15,802	15,802	184	188	1,907	6,655	5,804	4,539	1,178	960	1,08	1,02	1.12	1.04
Total.....	617,745	569,314	447,015	469,084	15,802	15,802	184	188	1,907	6,655	5,804	4,539	1,178	960	1,08	1,02	1.12	1.04
Under 1.....	16,639	15,960	15,802	16,455	15,802	15,802	184	188	1,907	1,438	1,438	1,403	11	6	11.46	8.98	11.39	8.88
1.....	16,945	15,780	15,877	16,889	15,877	15,877	404	383	463	463	463	462	398	6	2.95	2.60	2.85	2.59
2.....	17,488	16,672	16,794	16,794	16,017	16,017	684	655	214	188	188	204	181	7	1.22	1.13	1.21	1.13
3.....	16,928	16,947	16,069	16,069	16,069	16,069	898	878	183	148	148	156	140	5	.78	.87	.79	.87
4.....	16,146	15,389	14,975	15,019	14,975	14,975	1,197	1,114	112	99	99	104	96	7	.69	.64	.69	.67
5 to 10.....	73,883	72,201	64,496	66,855	64,496	64,496	8,088	7,703	321	273	273	296	255	18	.44	.38	.45	.40
10 to 15.....	71,649	68,846	60,275	62,665	60,275	60,275	8,984	8,571	183	176	176	151	132	27	.26	.26	.24	.25
15 to 20.....	60,311	58,098	49,487	49,487	48,815	48,815	10,734	10,283	235	235	235	190	237	38	.39	.50	.38	.49
20 to 30.....	113,016	103,901	76,878	76,878	75,617	75,617	36,740	28,284	500	632	501	351	462	139	.44	.61	.43	.61
30 to 40.....	85,192	74,941	50,381	50,381	49,340	49,340	32,351	25,601	873	501	501	396	318	153	.45	.67	.38	.64
40 to 50.....	60,747	50,569	36,037	36,037	35,354	35,354	24,710	18,515	495	343	343	217	205	125	.70	.69	.64	.64
50 to 60.....	40,506	30,873	23,998	23,998	23,921	23,921	14,510	9,961	463	332	332	249	202	110	1.14	1.08	.98	.97
60 to 70.....	21,331	17,216	14,731	14,731	12,032	12,032	6,660	5,184	565	349	349	309	213	175	2.65	2.03	2.50	1.77
70 to 80.....	9,021	6,365	5,663	5,663	4,577	4,577	2,358	1,788	443	309	309	258	190	104	5.53	4.85	5.09	4.15
80 to 90.....	1,576	1,401	1,146	1,146	1,048	1,048	480	369	174	162	162	118	110	53	11.04	11.56	10.19	10.56
90 to 100.....	144	136	94	94	91	91	50	35	26	35	35	20	21	6	13	18.05	27.78	23.08
100 and over.....	16	15	9	9	10	10	7	5	4	6	6	3	4	2	35.00	40.00	32.23	40.00
Unknown ages.....	7	5	3	5	3	3	3	2	124	106	106	63	72	14	.....	.....	.....	.....
Average of 17 Periods of Age.....	.....	.....	.....	.....	.....	.....	.....	.....	4.88	6.15	4.80	5.75	4.41	6.39	.....	.....	.....	.....

^a From Tables XXIII, XXIV, and XXV, Volume II, Ninth U. S. Census, 1870.^b Excluding 31 unknown sex, and including 299 males, 196 females, and 1 unknown sex, of unknown nativity.^c Excluding 30 unknown sex.

Exhibit 6 shows, by sex, the number of deaths returned for each of the years 1870-1874, the number of inhabitants, June 1, 1870, represented by the returns of deaths for the respective years, and the per cent. of deaths to population. It appears by this exhibit that the death-rate was greatest in 1873, and least in 1871; the order of the years, for all nativities, greatest number first, is: 1873, 1.213 per cent.; 1872, 1.155 per cent.; 1874, 1.066 per cent.; 1870, .933 per cent.; 1871, .851 per cent. In consequence of using the population in 1870 in computing the death-rate for each year, the death-rate as shown for each year is probably too high; and the farther the year is away from 1870, the greater will be the error, inasmuch as no allowance is made for increase of population.

In each year the highest death-rate is among the native-born, as shown in exhibit 6; but it should be borne in mind that the native-born include all the still-births and a large proportion of the children among whom the death-rate is always large, whereas the foreign-born population of the State is largely composed of middle-aged persons.

Among the native-born the death-rate is greater among the males, than among the females, for each year; and among the foreign-born, the death-rate is greater among the males for each year except for 1874, when it is slightly greater among the females.

EXHIBIT 6.—*Nativity of Decedents in Michigan during the Years 1870 to 1874, inclusive, showing the Relation of the Native and Foreign-born to the Native and Foreign-born Inhabitants, June 1, 1870.*

NATIVITY OF DECEDENTS AND OF INHABITANTS.	NATIVE AND FOREIGN-BORN POPULATION, JUNE 1, 1870, RE- PRESENTED BY RETURNS OF DEATHS IN THE GIVEN YEARS.			DECEDENTS IN 1870, 1871, 1872, 1873, AND 1874.								
				Year.	NUMBER.			PER CENT. OF DECEDENTS TO POPULATION OF SAME SEX AND NATIVITY.				
					Total. ^a	Males.	Fe- males.	Total.	Males.	Fe- males.		
All Nativities.... ^b	1,163,368	600,806	552,562	1870	10,766	5,539	5,140	.933	.930	.930		
Native	902,169	461,963	440,206		8,804	4,525	4,253	.975	.979	.966		
Foreign.....	251,199	138,843	112,356		1,600	893	716	.640	.643	.637		
All Nativities.... ^b	1,143,433	595,556	547,897	1871	9,728	5,190	4,503	.851	.871	.822		
Native	892,197	456,692	435,545		7,789	4,074	3,655	.870	.892	.839		
Foreign	251,236	138,904	112,352		1,608	927	681	.640	.687	.606		
All Nativities.... ^b	1,158,055	603,914	554,141	1872	13,371	7,182	6,162	1.155	1.189	1.113		
Native	900,889	461,307	439,582		10,812	5,647	5,138	1.200	1.224	1.169		
Foreign.....	257,166	142,607	114,559		2,146	1,303	843	.834	9.14	.736		
All Nativities.... ^b	1,175,781	613,327	562,404	1873	14,258	7,651	6,590	1.213	1.247	1.173		
Native	912,747	467,469	445,278		11,602	6,159	5,426	1.271	1.318	1.219		
Foreign.....	262,984	145,858	117,126		2,340	1,305	1,035	.890	.895	.884		
All Nativities.... ^b	1,172,182	611,573	560,609	1874	12,500	6,665	5,804	1.066	1.090	1.035		
Native	909,846	465,970	443,876		9,937	5,248	4,689	1.092	1.105	1.050		
Foreign.....	262,336	145,603	116,733		2,128	1,178	950	.811	.808	.814		

^a Includes unknown sex.

^b Includes decedents of Unknown nativity.

TABLE XIII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of All Returned as having died in Michigan during the Year ending December 31, 1874.*

STATE AND COUNTIES.	ALL NATIVITIES, 1874.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Unk.
STATE.....	12,500	6,685	5,804	31	9,937	5,248	4,689	30	2,128	1,178	950	435	a 230	b 195	1
Alcona.....	11	3	7	1	7	2	4	1	2	-----	2	2	1	1	---
Allogan.....	311	174	137	---	255	145	110	---	56	29	27	---	---	---	---
Alpena.....	32	19	13	---	19	9	10	---	11	9	2	2	1	1	---
Antrim.....	33	23	10	---	28	20	8	---	5	3	2	---	---	---	---
Baraga.....	10	6	4	---	7	4	3	---	3	2	1	---	---	---	---
Barry.....	195	105	89	1	169	92	76	1	24	12	12	2	1	1	---
Bay.....	250	137	113	---	199	110	89	---	45	24	21	6	3	3	---
Benzie.....	26	7	19	---	22	4	18	---	2	1	1	2	2	---	---
Berrien.....	395	219	176	---	333	186	147	---	52	28	24	10	5	5	---
Branch.....	220	114	105	1	190	104	84	1	16	9	7	5	1	4	---
Calhoun.....	300	154	146	---	262	131	131	---	29	16	13	9	7	2	---
Cass.....	141	76	65	---	130	70	60	---	6	4	2	5	2	3	---
Charlevoix.....	21	9	12	---	16	7	9	---	5	2	3	---	---	---	---
Cheboygan.....	24	12	12	---	21	10	11	---	2	1	1	1	1	---	---
Chippewa.....	8	5	3	---	6	3	3	---	2	2	---	---	---	---	---
Clare.....	28	16	12	---	23	13	10	---	4	2	2	1	1	---	---
Clinton.....	195	103	91	1	168	85	83	1	23	15	8	4	3	1	---
Delta.....	39	23	16	---	29	18	11	---	7	3	4	3	2	1	---
Eaton.....	236	146	89	1	218	140	77	1	13	6	7	5	---	5	---
Emmet.....	31	20	11	---	29	20	9	---	---	---	---	2	---	2	---
Genesee.....	220	119	101	---	198	107	91	---	22	12	10	---	---	---	---
Gladwin.....	1	---	1	---	---	---	---	---	1	---	1	---	---	---	---
Gr. Traverse.....	35	15	20	---	27	11	16	---	8	4	4	---	---	---	---
Gratiot.....	127	65	62	---	119	59	60	---	5	3	2	3	3	---	---
Hillsdale.....	221	113	106	2	185	95	88	2	22	12	10	14	6	8	---
Houghton.....	225	134	91	---	158	89	69	---	62	41	21	5	4	1	---
Huron.....	111	61	49	1	77	39	37	1	34	22	12	---	---	---	---
Ingham.....	262	135	127	---	229	120	109	---	25	10	15	8	5	3	---
Ionia.....	286	147	139	---	253	127	126	---	23	12	11	10	8	2	---
Iosco.....	26	16	10	---	17	9	8	---	6	4	2	3	3	---	---
Isabella.....	38	11	25	---	32	9	23	---	3	2	1	1	---	1	---
Jackson.....	277	133	143	1	255	121	133	1	21	11	10	1	1	---	---
Kalamazoo.....	331	177	152	2	276	148	126	2	52	28	24	3	1	2	---
Kalkaska.....	14	7	7	---	14	7	7	---	---	---	---	---	---	---	---

a 1 "America." b 4 "America."

TABLE XIII.—CONTINUED.—*Deaths by Counties, Nativity, and Sex.*

COUNTIES.	ALL NATIVITIES, 1874.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Unk.
Kent.....	586	293	289	4	474	229	241	4	97	59	38	15	5	10	---
Keweenaw..	53	39	14	---	23	15	8	---	24	19	5	6	5	1	---
Lake.....	96	12	14	---	19	10	9	---	5	1	4	2	1	1	---
Lapeer.....	224	118	105	1	173	92	80	1	44	21	23	7	5	2	---
Leelanaw...	46	22	24	---	33	17	16	---	12	5	7	1	---	1	---
Lenawee....	330	163	167	---	300	147	153	---	27	14	13	3	2	1	---
Livingston..	188	98	90	---	157	81	76	---	28	16	12	3	1	2	---
Mackinac...	16	6	10	---	14	5	9	---	2	1	1	---	---	---	---
Macomb.....	270	141	128	1	214	115	98	1	55	25	30	1	1	---	---
Manistee....	70	33	37	---	52	25	27	---	18	6	7	5	2	3	---
Manitou.....	9	7	2	---	3	3	---	---	6	4	2	---	---	---	---
Marquette..	254	142	112	---	187	97	90	---	67	45	22	---	---	---	---
Mason.....	47	28	19	---	39	22	17	---	6	5	1	2	1	1	---
Mecosta.....	79	34	45	---	67	27	40	---	10	6	4	2	1	1	---
Menominee..	2	2	---	---	2	2	---	---	---	---	---	---	---	---	---
Midland....	42	18	23	1	36	17	18	1	8	1	4	1	---	1	---
Missaukee...	3	2	1	---	3	2	1	---	---	---	---	---	---	---	---
Monroe.....	282	149	111	2	213	117	94	2	40	30	16	3	2	1	---
Montcalm...	191	96	95	---	165	84	81	---	23	11	12	3	1	2	---
Muskegon...	170	86	83	1	127	63	63	1	33	18	15	10	5	5	---
Newaygo....	50	28	22	---	48	26	22	---	1	1	---	1	1	---	---
Oakland.....	235	158	127	---	236	124	112	---	40	29	11	9	5	4	---
Oceana.....	85	43	46	---	75	38	37	---	11	4	7	3	1	2	---
Ontonagon...	28	12	16	---	20	9	11	---	8	3	5	---	---	---	---
Osceola.....	50	27	23	---	42	23	19	---	7	3	4	1	1	---	---
Ottawa.....	298	167	131	---	231	123	98	---	58	30	28	9	4	5	---
Presque Isle	6	3	3	---	5	2	3	---	1	1	---	---	---	---	---
Saginaw.....	568	293	275	---	401	213	188	---	88	45	43	79	34	45	---
Sanilac.....	180	93	67	---	100	63	37	---	57	28	29	3	2	1	---
Schoolcraft..	30	15	5	---	17	12	5	---	2	2	---	1	1	---	---
Shiawassee..	168	81	87	---	150	72	78	---	16	8	8	2	1	1	---
St. Clair....	345	202	150	3	248	135	110	3	102	63	39	5	4	1	---
St. Joseph...	207	107	100	---	178	93	85	---	26	13	13	3	1	2	---
Tuscola.....	158	81	76	1	125	61	63	1	30	18	12	3	2	1	---
Van Buren..	271	140	131	---	250	124	126	---	17	12	5	4	4	---	---
Washtenaw..	355	189	175	---	290	146	144	---	62	33	29	3	1	2	---
Wayne.....	1,868	1,036	828	6	1,224	654	535	5	506	268	238	138	a 84	b 53	1
Wexford.....	18	6	12	---	16	6	10	---	2	---	2	---	---	---	---

a 1 "America." b 4 "America."

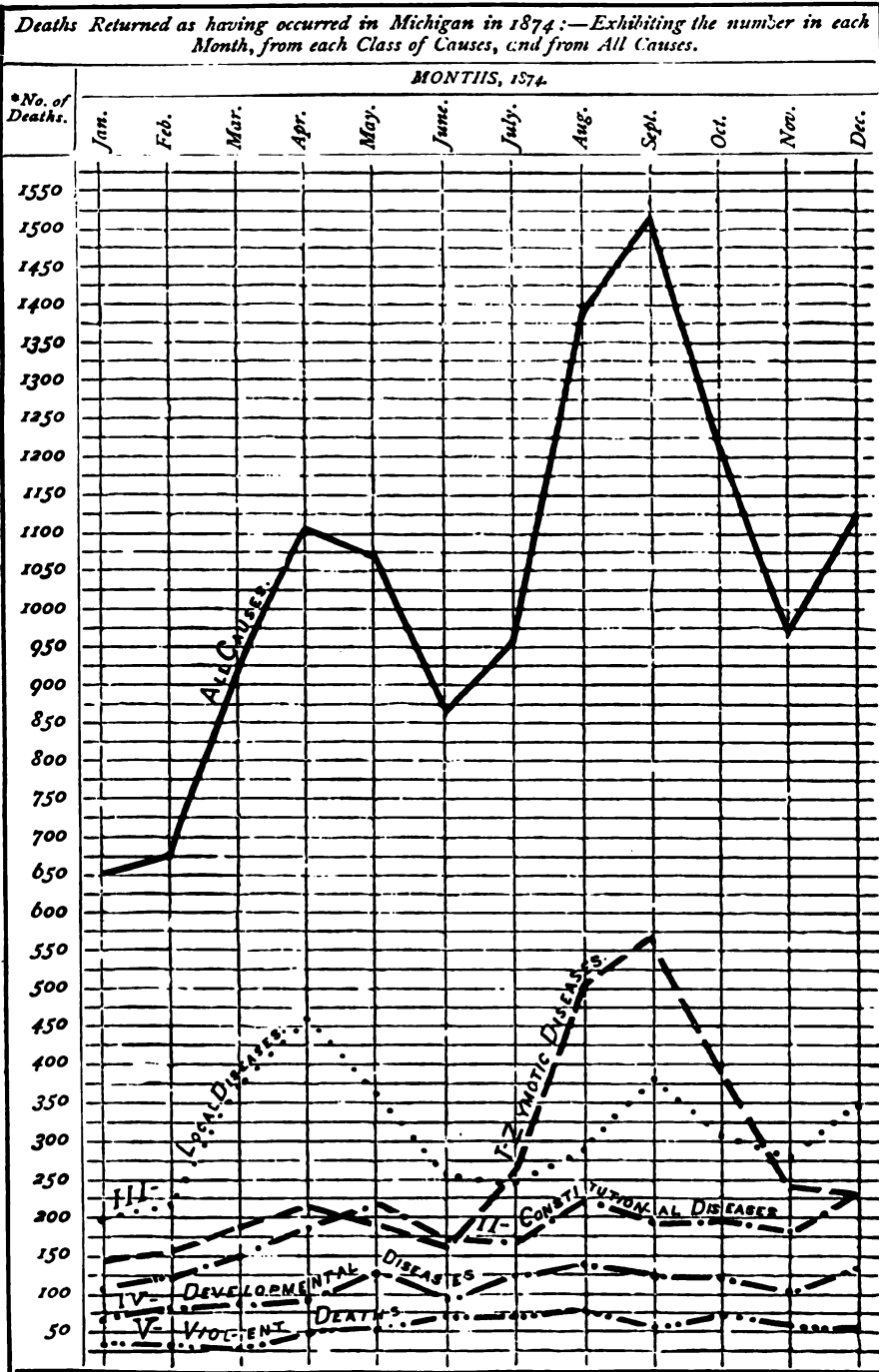
CAUSES OF DEATH.

The same classification was used in the compilation of the deaths in Michigan in 1874 as has been heretofore used in this State; and a comparison of the classes for the different years is therefore instructive. This comparison is facilitated by the use of Table XIV., which is similar to the corresponding tables for previous years, and shows, for each of the years 1869-1874, the number and per cent. of total deaths returned as having occurred from each class of causes of death. An examination of Table XIV. shows that the proportion of deaths from causes included in Class I.—Zymotic Diseases—is less in 1874 than in any previous year. Cholera Infantum, Diarrhea, Diphtheria, Dysentery, Typhoid Fever, Scarlet Fever, and possibly one or two other causes of death, are the controlling diseases of this class, and a decrease of the proportion of deaths from this class of causes would naturally be attended with a similar decrease in the proportion of deaths of children among whom these diseases are principally fatal. Such a decrease is noticed, as it was stated in our remarks upon Table IV., page 125, that the proportion of deaths of persons under five years of age was less in 1874 than in any previous year except 1871, in which year the per cent. was slightly smaller than in 1874; it may also be seen in Table XIV. that in this exceptional year, 1871, the proportion of deaths from Zymotic Diseases was less than any other year except 1874, and the nearest to 1874 of any of the other years. The largest proportion of deaths in 1874 was from causes included in Class III.—Local Diseases—being 29.58 per cent. of the deaths from all causes; this is a larger proportion from this class than for any previous year except 1873; the particular diseases included in this class may be seen by turning to the table of diseases classified, on a following page. Inflammation of the lungs and “lung disease” contributed largely to the increased death-rate from Class III. in 1874. The proportion of deaths from causes included in Class II.—Constitutional Diseases—is less in 1874 than in 1869, 1870, or 1871, and more than in 1872 or 1873; the proportion from Class IV.—Developmental Diseases—and Class V.—Violent Deaths—is greater in 1874 than in any year except 1871; and the proportion from Unknown and Unclassified is greater in 1874 than in any year except 1869.

TABLE XIV.—*Number of Deaths Returned as having Occurred in Michigan from All Causes, and from each Class of Causes, and Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1869 to 1874, inclusive.*

CAUSES OF DEATH,— CLASSES.	1869.		1870.		1871.		1872.		1873.		1874.	
	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
All Causes.....	9,145	100.00	10,766	100.00	9,736	100.00	13,371	100.00	14,268	100.00	12,500	100.00
I.—Zymotic Diseases..	2,513	27.47	3,439	31.85	2,642	27.16	4,399	32.90	4,027	28.24	3,260	26.08
II.—Constitutional Dis- eases.....	1,734	18.96	2,072	19.24	1,852	19.04	2,146	16.05	2,207	15.48	2,117	16.93
III.—Local Diseases....	2,334	25.52	2,699	25.06	2,619	26.92	2,762	20.14	4,566	32.02	3,697	29.58
IV.—Developmental Diseases.....	814	8.90	840	7.80	1,002	10.30	1,063	7.94	1,162	8.15	1,256	10.05
V.—Violent Deaths....	468	5.11	496	4.59	539	5.54	541	4.04	685	4.86	636	5.25
Unknown and Unclassi- fied.....	1,282	14.01	1,281	11.43	1,074	11.04	1,460	10.93	1,612	11.31	1,514	12.11

DIAGRAM No. 4.



*Scale=250 to the inch.

Drawn by L. De Lamarte.

Designed by Henry B. Baker.

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Exhibit 7 shows, by months of the year 1874, the number of deaths returned as having occurred from all causes, and from each class of causes, and is valuable in showing the seasonal variations of mortality from the different classes of causes of death in Michigan. The data contained in this exhibit are graphically represented in Diagram No. 4, opposite this page, which facilitates the study of this subject.

The great rise in April of the line representing deaths from all causes is mainly due to Class III.—Local Diseases—and the rise in August and September of the line representing all causes is mainly due to Class I.—Zymotic Diseases—although the line for Class III. rises somewhat in those months. Classes II., IV., and V. are quite uniform throughout the year, each one showing a general gradual rise from January to December. This is probably due to the more complete and thorough enumeration of the deaths for each month approaching the end of the year, as the time which has elapsed between the occurrence and the enumeration of the deaths diminishes. From this diagram it will be seen at a glance that the mortality in Michigan in 1874 was largely governed by the Zymotic and Local diseases. Excluding the unknown and unclassified, 68.60 per cent. of the deaths in August and September combined were caused by zymotic and local diseases; and of the deaths in April, excluding the unknown and unclassified, 46.16 per cent. were caused by local diseases alone. Further on it will be seen that, of the local diseases, pneumonia was unusually fatal in April, 1874, as shown by Diagram No. 9; and the meteorological conditions with which this fatality was associated were a low temperature—as shown by Diagram No. 6, unusually dry air—as shown by Diagram No. 7, very high pressure of the atmosphere—shown by Diagram No. 8, and a very considerable excess of ozone—shown by a manuscript diagram used for study, but not published in this Report.

EXHIBIT 7.—*By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes, and from each Class of Causes, for the Year 1874.*

CAUSES OF DEATH,— CLASSES.	YEAR, 1874.	MONTHS OF DEATH, 1874.												
		Jan.	Feb.	Mar.	Apr.	M'y.	J'ne.	J'ly.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Causes.....	12,500	655	672	919	1,102	1,071	866	965	1,388	1,517	1,211	968	1,120	46
I.—Zymotic.....	3,260	146	154	184	214	186	163	260	502	572	397	245	229	8
II.—Constitutional.....	2,117	103	119	149	185	209	168	165	216	190	194	181	231	7
III.—Local Diseases.....	3,697	198	213	365	457	364	256	240	286	377	307	277	346	8
IV.—Developmental.....	1,256	68	76	82	85	124	89	121	133	125	117	106	129	1
V.—Violent Deaths.....	656	37	32	28	49	52	67	68	75	56	72	60	57	3
Unk. and Unclassified.....	1,514	103	78	106	112	136	123	111	176	197	124	99	128	19

Exhibit 8 is the same in plan as the corresponding one for previous years, with the addition of data for 1874, and shows the number and proportion of deaths from each of five groups of causes. There were more deaths from Lung diseases in each of the years 1869-1874 than from any other of the groups of diseases in the exhibit. In 1874, more than one-fifth of the deaths in Michigan are reported to have been caused by lung diseases; this is a larger proportion than is shown in this exhibit for any other year. In 1874, 54.22 per cent. of the deaths in Michigan are reported to have been caused by the five causes grouped in exhibit 8; in 1873 and 1872, the per cent. is a little more, and in 1871, 1870, and 1869, the per cent. was a little less. The average proportion of deaths from these five groups for the six years 1869-1874 is 52.81 per cent.

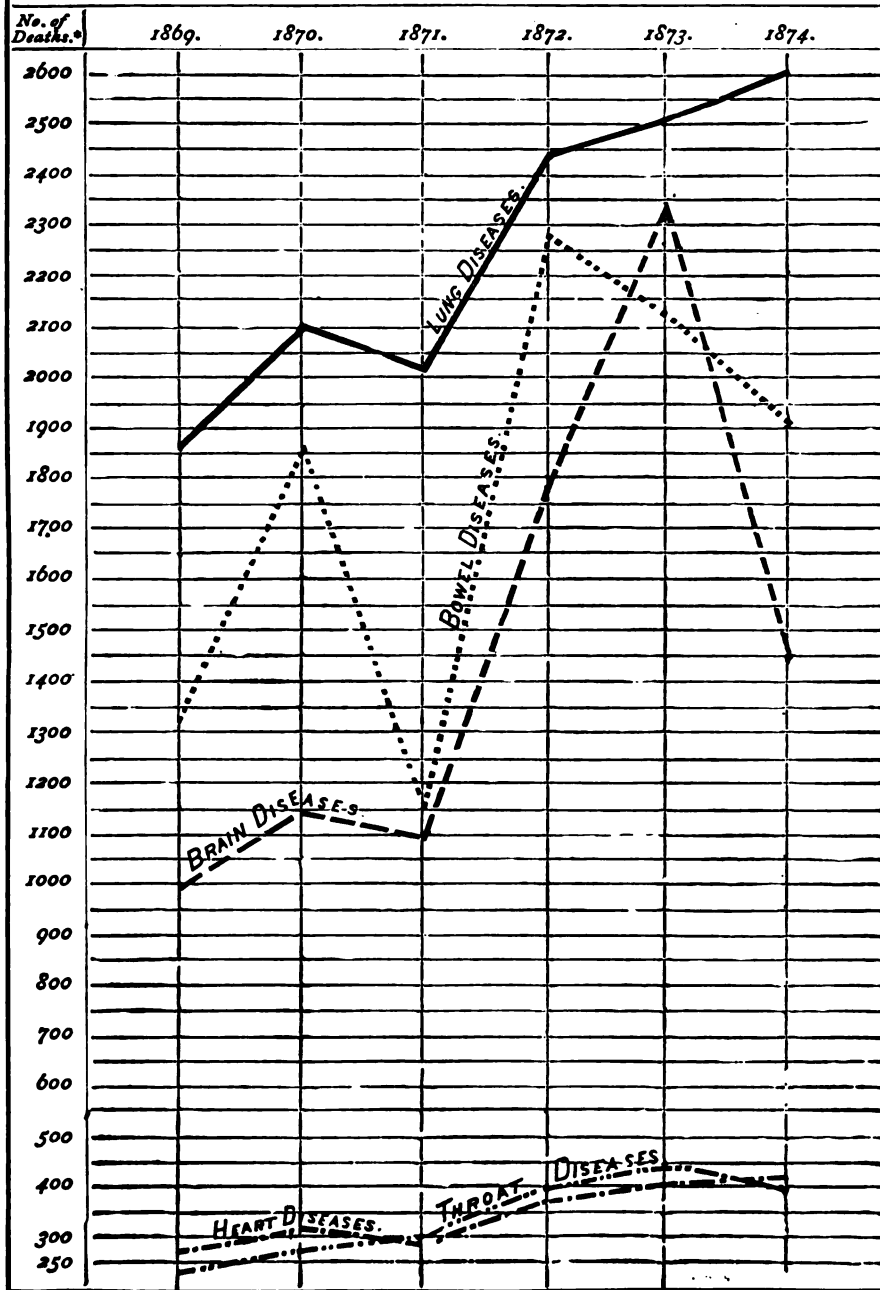
EXHIBIT 8.—*Order of Succession of Five Groups of Causes of Death in Michigan for each of the Years 1869 to 1874, inclusive, according to the Returns.*

ORDER OF CAUSES	YEAR, 1869.			YEAR, 1870.			YEAR, 1871.			YEAR, 1872.			YEAR, 1873.			YEAR, 1874.		
	DISEASES OF	Per Ct. of All Causes.	Num-ber.	DISEASES OF	Per Ct. of All Causes.	Num-ber.	DISEASES OF	Per Ct. of All Causes.	Num-ber.	DISEASES OF	Per Ct. of All Causes.	Num-ber.	DISEASES OF	Per Ct. of All Causes.	Num-ber.	DISEASES OF	Per Ct. of All Causes.	Num-ber.
1	All Causes	.....	9,145	All Causes	.....	10,766	All Causes	.....	9,738	All Causes	.....	12,371	All Causes	.....	14,238	All Causes	.....	12,500
2	Lungs.....	20.33	1,891	Lungs.....	19.45	2,004	Lungs.....	20.74	2,018	Lungs.....	18.36	2,441	Lungs.....	17.61	2,511	Lungs.....	20.84	2,605
3	Bowels....	14.45	1,321	Bowels....	17.21	1,853	Bowels....	11.85	1,153	Bowels....	17.04	2,278	Brain.....	16.38	2,336	Bowels....	15.36	1,907
4	Brain.....	10.81	986	Brain.....	10.57	1,128	Brain.....	11.25	1,064	Brain.....	13.23	1,779	Bowels....	14.99	2,121	Brain.....	11.60	1,450
5	Heart.....	3.02	276	Heart.....	2.94	316	Throat....	3.06	298	Throat....	2.92	391	Throat....	3.04	434	Heart.....	3.36	420
6	Throat....	2.41	220	Throat....	2.53	273	Heart.....	3.02	294	Heart.....	2.79	373	Heart.....	2.93	403	Throat....	3.16	386
7-5	5 Groups...	51.04	4,673	5 Groups...	52.70	5,673	5 Groups...	49.92	5,857	5 Groups...	54.24	7,392	5 Groups...	54.74	7,804	5 Groups...	54.22	6,777

Though the exact figures are best stated in Exhibit 8, the relations of the several groups to each other, and of the deaths in each group in the different years, are best fixed in mind by means of their graphic representation in Diagram No. 5, on the opposite page.

DIAGRAM No. 5.

Deaths Returned as having occurred in Michigan from each of Five Groups of Causes, for each of the Years 1869-1874.



Scale 370 to the inch.

Drawn by L. De Lamarter.

Designed by Henry B. Baker.

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EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of death, with a list of Counties included in each Division.*

Upper-Peninsular.	North-west-ern.	Northern.	North-east-ern.	Western.	Northern-Central.	Bay and Eastern.	Central.	South-western.	Southern-Central.	South-eastern.
Baraga.	Benzie.	Antrim. ¹	Alcona.	Kent.	Clare.	Bay. ^v	Barry.	Allogan.	Branch.	Macomb.
Chippewa. ^a	Gr. Traverse. ^o	Charlevoix.	Alpena. ¹	Lake.	Gladwin.	Huron. ^w	Clinton.	Berrion.	Calhoun.	Monroe.
Delta. ^b	Leelanaw.	Choboygan. ^j	Iosco. ^m	Mason. ^o	Isabella. ⁴	Lapeer.	Eaton.	Cass.	Hilledale.	Oakland.
Houghton.	Manistee. ^f	Emmet. ^t	Presque Isle. ⁿ	Muskegon. ^p	Mecosta.	Saginaw. ^z	Genesee.	Van Buren.	Jackson.	Wayne.
Keweenaw.	Manitou. ^s	Kalkaska.		Newaygo. ^q	Midland. ^u	Sanilac.	Gratiot. ^y		Kalamazoo.	
Mackinac. ^c	Missaukee.			Oceana. ^r		St. Clair.	Ingham.		Lenawee.	
Marquette. ^d	Wexford. ^h			Oscoda. ^s		Tuscola.	Ionla.		St. Joseph.	
Menominee.				Ottawa.			Livingston.		Washtenaw.	
Ontonagon.							Montcalm. ^u			
Schoolcraft.							Shiawassee.			

No returns of deaths from the following townships:

^a Sugar Island and Warner. ^b Masonville, Sack Bay, and Winona. ^c Holmes. ^d Forsyth. ^e Whitewater. ^f Arcadia. ^g Chandler, Galloo, and South Manitou. ^h Clam Lake and Haring. ⁱ Otsego Lake. ^j Hurst and Inverness. ^k Bear Creek. ^l Ossiheke. ^m Baldwin. ⁿ Presque Isle and Rogers. ^o Branch, Free Soil, Hamlin, Lincoln, Summit, and Victory. ^p Fruitland and Fruitport. ^q Brooks. ^r Newfield. ^s Hartwick. ^t Chippewa, Rolland, Sherman, and Union. ^u Edenville, Jasper, and Porter. ^v Clayton. ^w Bloomfield, Brookfield, Meade, Sand Beach, and White Rock. ^z Albee and Chapin. ^y Elba. ^u Douglass, Home, Reynolds, and Winfield.

Table XV. contains data concerning the death-rate in Michigan in 1874, by geographical divisions, based upon the population in 1870 and the deaths returned for 1874, also concerning the proportion of reported deaths in 1874 from all causes, and from each class of causes, by geographical divisions.

The largest death-rate is shown for the northern division, the smallest for the southern-central; but the northern division was so sparsely settled in 1870 that any results of calculations based upon the population in 1870 and the deaths in 1874 are not fairly comparable with those for the old-settled parts of the State, because the population of those portions of the State which were thinly settled has changed greatly.

The largest proportion of deaths from Zymotic diseases appears for the north-eastern division of the State, the smallest for the northern; the largest proportion from Constitutional diseases was in the southern-central division, the smallest in the north-eastern; the largest proportion from Local diseases was in the northern division, the smallest in the north-eastern; the largest proportion from Developmental diseases was in the northern division, the smallest in the south-western; the largest proportion from Violent deaths was in the north-eastern division, the smallest in the north-western; and the largest proportion from the unknown and unclassified diseases was in the Bay and Eastern division, the smallest in the north-eastern. Nearly one-quarter of the deaths in the Bay and Eastern division were from unknown and unclassified causes, which does not speak well for the intelligence in that part of the State.

TABLE XV.—*Exhibiting, for the State, and for each of Eleven Geographical Divisions of the State, the Population, June 1, 1870; the Number of Deaths Returned, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1874; the Per Cent. of Reported Deaths in 1874 to Population, June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.	Popula- tion, June 1, 1870, Represent- ed by Deaths in 1874.	DEATHS REPORTED, 1874.		Per Ct. of All Deaths in 1874 to Popu- lation in 1870.	PER CENT. OF DEATHS FROM EACH CLASS OF CAUSES TO DEATHS FROM ALL CAUSES, BY GEOGRAPHICAL DIVISIONS.					
		Num- ber.	Per Cent. of Total.		Class I. Zymotic Diseas's.	Class II. Consti- tutional Diseas's.	Class III. Local Diseas's.	Class IV. Develop- mental Diseas's.	Class V. Violent Deaths.	Unk'n and Un- clas- sified.
STATE	1,172,182	12,500	100.00	1.07	26.08	16.93	29.58	10.05	5.25	12.11
Upper-Peninsular.	42,187	655	5.24	1.55	26.26	15.12	22.44	12.06	9.92	14.90
North-western.....	17,795	207	1.66	1.16	23.60	16.91	24.16	14.49	2.90	13.04
Northern.....	5,921	123	.98	2.08	10.57	8.13	39.02	17.89	8.13	16.26
North-eastern.	6,553	75	.60	1.14	34.67	8.00	17.33	10.67	22.67	6.66
Western.....	109,868	1,316	10.53	1.20	30.77	14.82	25.23	11.78	5.52	12.08
Northern-Central..	11,870	186	1.49	1.57	27.96	16.67	22.04	12.36	4.30	16.67
Bay and Eastern..	148,708	1,826	14.61	1.23	25.85	14.06	23.77	7.72	4.87	23.71
Central.....	221,168	2,068	16.54	.93	26.45	16.39	32.69	10.30	4.21	9.96
South-western.....	117,140	1,118	8.94	.95	26.65	17.62	35.60	6.98	4.65	8.50
Southern-Central..	275,904	2,241	17.93	.81	23.74	20.79	35.12	8.79	4.06	7.50
South-eastern.....	215,068	2,685	21.48	1.25	25.47	17.94	28.72	11.55	6.00	10.32

TABLE XVI.—CAUSES OF DEATH.—NOSOLOGICAL ARRANGEMENT.

Exhibiting the Number of Reported Deaths in Michigan and in each County of the State during the Year 1874 from Specified Causes, Statistically Classified (Still-births Included).

CAUSES OF DEATH,—1874		COUNTIES.																								
		STATE.	Alcona.	Alligau.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gratiot.	
All Causes.....		12,500	11	311	32	33	10	195	250	26	395	220	300	141	21	24	8	28	195	39	236	31	220	1	35	127
Specified Causes.....		10,986	8	274	30	27	8	176	214	24	368	205	273	130	19	20	5	24	181	27	216	29	198	1	30	112
Causes not Specified.....		1,500	3	37	2	6	2	19	35	2	26	15	27	11	2	4	3	4	14	12	20	2	21	—	5	15
CLASSES.																										
I.—Zymotic Diseases.....		3,260	2	90	16	4	1	41	89	7	117	51	66	33	2	4	2	11	54	5	63	1	55	—	16	41
II.—Constitutional Diseases.....		2,117	—	52	1	2	1	33	41	4	57	46	67	25	5	2	2	3	39	7	43	—	36	—	6	16
III.—Local Diseases.....		3,697	3	89	7	9	5	72	46	7	153	79	109	59	9	2	—	4	46	7	82	24	71	1	0	88
IV.—Developmental Diseases.....		1,256	2	30	3	7	—	21	24	5	20	17	19	8	2	10	1	4	33	4	19	2	24	—	2	14
V.—Violent Deaths.....		656	1	13	3	5	1	9	14	1	16	12	12	5	1	2	—	2	9	4	9	2	12	—	3	8
Unclassified.....		14	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
ORDERS.																										
I.—1. Miasmatic Diseases.....		3,204	2	90	16	3	1	40	89	7	117	50	64	33	1	4	2	11	54	5	63	1	54	—	16	41
2. Enthetic Diseases.....		9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. Dietic Diseases.....		28	—	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—
4. Parasitic Diseases.....		19	—	—	—	1	—	1	—	—	—	1	1	—	—	—	—	—	—	—	—	—	1	—	—	—

CLASS I.—ZYMOTIC.....	3,290	2	90	16	4	1	41	89	7	117	51	68	33	2	4	2	11	54	5	63	1	55	16	41
I.—ORDER 1. Miasmatic.....	3,204	2	90	16	3	1	40	89	7	117	50	64	33	1	4	2	11	54	5	63	1	54	16	41
1. { Chicken-pox.....	1																							
1. { Small-pox.....	18																							
2. Measles.....	51	1					1	14	1												2		1	
3. Scarlatina.....	440	3					6	9	2	5	4						1	7		12	7		8	
4. Diphtheria.....	213	11					3	9	13	11	5							1		7	8		6	
5. Quinsy.....	12																							
6. Group.....	142	1						8	9			1						1		3	3		2	
7. Whooping-cough.....	153	2					1	2	8	7	1	5			4			1		5	1			
{ Continued Fever.....	2																1							
8. Typhoid Fever.....	610	20	1	1	1	10	7	1	25	8	16	11			2	9	17		9	10		1	8	
8. Typhus Fever.....	19	1																1		1				
{ Typho-malarial Fever.....																								
9. { Blood Poison.....	2																							
9. { Erysipelas.....	104	9			1	2	2		5	3	1							3		2			1	
10. Puerperal Fever.....	49					2					1	1	3					2		1		4	1	
11. Carbuncle.....	1																			1				
12. Influenza.....	5													2									1	
13. Dysentery.....	304	4				3	12	2	8	3	15							6	3	8		3	12	
14. Diarrhea.....	390	2	4	13	1	1	6	25	2	8		6	2	1				3		1	1	2	1	
15. Cholera Infantum.....	278	7				2	4		6	7	8	6						6	1	9		1	1	
16. { Cholera Morbus.....	18					1			1		1							1						
16. { Cholera.....	6										1													
17. Ague.....	143	4				2	4	1	10		1	2						2		1	4		6	
18. { Fever.....	108	22	2				4		1		3	1								1	5		1	
18. { Remittent Fever.....	72							2	1	2	2							1		2				
19. Rheumatism.....	63	1				2			5	2	1							2	1		4			

1. Gout.....	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1874.	COUNTIES.																								
	State.	Alcona.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Kemuel.	Genesee.	Gladwin.	Gr. Traverse.	Grafton.
3. Bright's Disease of Kidneys.....	15																			1					
4. Diabetes.....	27						1			1		3												1	
5. Calculus (Gravel, etc.).....	20						1			1	1	1	10									1			
6. Cystitis.....	10		1		1		1																		
7. Kidney Diseases.....	38		2				1		1	1	1	1											1		
III.—ORDER 6. Generative Organs.....	8									1															
1. { Ovarian Dropsy.....	1																								
{ Ovarian Tumor.....	6									1															
2. { Diseases of Uterus.....	1																								
{ Hydrocele.....	1																								
III.—ORDER 7. Organs of Locomotion.....	5																			1					
1. { Arthritis.....	1																								
{ Bones, Disease of.....	1																								
2. Joint Diseases.....	4																			1					
III.—ORDER 8. Integumentary System.....	60	2	2			1	1		1	3	1	2										1			
1. Phlegmon.....	28	1	1			1	1			1		1													
2. Ulcer.....	3								1																
3. Skin Diseases.....	29	1	1							2	1	1										1			
CLASS IV.—DEVELOPMENTAL DISEASES.....	1,266	2	30	3	7	21	24	5	20	17	19	8	2	10	1	4	33	4	19	2	24				2

IV.—ORDER 1. Developm't Dia. of Children	606	1	14	1	5	9	13	4	8	9	4	3	1	10	1	2	17	2	7	1	12	5
1. Still-born.....	464	1	13	1	5	9	9	2	7	9	4	1	1	10	1	2	14	2	6	1	9	5
2. { Infantile.....	27		2																			
{ Premature Birth.....	21		1					2	1			1					3					
3. Cyanosis.....																						
4. Spina Bifida.....	2																					
5. Other Malformations.....	3																					
6. Teething.....	89						4					1							1	3		
7. Injury at Birth.....																						
IV.—ORDER 2. Developm't Dia. of Women	222	1	3	1	1	5	7	1	3	1	7	1	1	1	1	1	5	2	2	1	6	4
1. { Dysmenorrhea.....																						
{ Turn of Life.....	4																					
{ Childbirth.....	209	1	3	1	1	4	7	1	3	1	6		1				1	5	2	2	5	4
2. { Abortion.....	7																					
{ Uterine Hemorrhage.....	6																					
IV.—ORDER 3. Dev. Diseases of Old People	428		13	2	1	7	4		9	7	8	4				1	11		10	1	6	5
1. Old Age.....	428		13	2	1	7	4		9	7	8	4				1	11		10	1	6	5
IV.—ORDER 4. Diseases of Nutrition																						
1. Atrophy and Debility.....																						
CLASS V.—VIOLENT DEATHS.....	656	1	13	3	5	9	14	1	16	12	12	5	1	2		2	9	4	9	2	12	3
V.—ORDER 1. Accident or Negligence.....	409		9		4	1	4	10	1	10	6	4		1		2	6	3	6	2	6	2
1. Fractures and Contusions.....	62						1	1	2	1	2	2					2				1	
2. Wounds.....	20		1				3		1	1		1							1		1	
3. Burns and Scalds.....	71		1		1		1	1	1		1					2	1		1		1	1
4. Poison.....	22																					
5. Drowning.....	116		2		3	1	2	4		2	1						1	1	2			

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH,—1874.	COUNTIES.															
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Isco.	Ipswich.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.	Kalamazoo.
All Causes.....	221	225	111	202	286	96	36	277	331	14	586	53	26	224	46	330
Specified Causes.....	202	180	86	230	256	96	32	248	311	8	524	50	26	210	40	305
Causes not Specified.....	18	42	25	31	30	—	4	28	20	6	62	3	—	14	6	25
CLASSES.																
I.—Zymotic Diseases.....	60	68	27	62	90	—	8	63	73	2	174	13	9	74	11	88
II.—Constitutional Diseases.....	49	25	21	38	38	2	7	46	84	1	104	5	3	35	9	68
III.—Local Diseases.....	72	47	22	90	80	2	11	108	112	4	143	12	9	77	12	110
IV.—Developmental Diseases.....	12	21	8	22	24	2	4	26	27	1	75	7	4	15	5	31
V.—Violent Deaths.....	9	19	8	9	15	13	2	5	15	—	28	13	1	9	3	8
Unclassified.....	1	3	—	1	—	—	—	1	—	—	—	—	—	—	—	—
ORDERS.																
I.—1. Miasmatic Diseases.....	60	67	26	62	88	7	8	61	70	2	173	12	8	7	11	86
2. Enanthic Diseases.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. Dietic Diseases.....	1	—	—	—	1	—	—	2	3	—	—	1	1	1	—	—
4. Parasitic Diseases.....	—	—	1	—	1	—	—	—	—	—	1	—	—	—	—	—
II.—1. Diathetic Diseases.....	11	5	11	10	14	—	—	8	24	1	21	2	1	9	1	21
2. Tubercular Diseases.....	38	20	10	28	24	2	7	38	60	—	83	3	2	26	8	47

I.—ORDER 1. Miasmatic.....																								
	1. { Chicken-pox.....																							
	1. { Small-pox.....					2						9												
	2. Measles.....				1							3			1					2			3	
	3. Scarletina.....	12	1	1	2	20	2		5	4		18		2	25		21	5		38	4		17	
	4. Diphtheria.....	1		1	1	4			2	12		13			3		6			6			2	
	5. Quinsy.....								1			1								2			1	
	6. Croup.....	2	5		3	3			4	1		8	1		5		4	1		3			8	1
	7. Whooping-cough.....	2	3		8	2	1		1	9	1	2			2	3	1			2			3	1
	{ Continued Fever.....											1												
	8. { Typhoid Fever.....	13	11	4	8	19		4	13	11	1	39	5	1	16		19	13		2			4	4
	Typhus Fever.....								1						1					3		1	4	
	{ Typho-malarial Fever.....																							
	9. { Blood Poison.....				1																			1
	{ Erysipelas.....	2			5	4			6	1		5				2	1	1		2				2
	10. Puerperal Fever.....			1	3	3						1			2					3			2	1
	11. Carbuncle.....																							
	12. Influenza.....				1												1							
	13. Dysentery.....	2	4	13	8	8	3	1	8	11		16	1	2	6	4	6	15	1	2			14	1
	14. Diarrhea.....	1	17	5	6	4		1	1	5		22	3	3	3	1	1	2	1	3	1		10	2
	15. Cholera Infantum.....	9	5		4	4		1	9	13		14	2		2		20			2	10		7	1
	16. { Cholera Morbus.....	1										3					1			1				
	{ Cholera.....											1					1			1				
	17. Ague.....	3	3	1	9	7	1	1	1	2		4			3	1	3	4		2	1		1	1
	18. { Fever.....	7	17	1	2	1						2										1		
	{ Remittent Fever.....	2			1	2			6			4			3		1	1			3		3	1
	19. Rheumatism.....	3	1			4			3	1		6			1			2		2				1

TABLE XVI.—CONTINUED.—*Causes of Death Classified.*

CAUSES OF DEATH,—1874.		COUNTIES.																							
I.—ORDER 2. Ethnetic.....		Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Ipsbilla.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Leelanaw.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Macon.	Meosta.
1. Syphilis.....																					1				
2. { Stricture of Urethra.....																					1				
{ Stricture.....																									
3. Hydrophobia.....																									
4. Glanders.....																									
I.—ORDER 3. Dietic.....																									
1. Privation.....																									
{ Purpura.....																									
{ Bactitis.....																									
{ Scurvy.....																									
2. Delirium Tremens (Alcoholism).....																									
4. Intemperance.....																									
I.—ORDER 4. Parasitic.....																									
1. Thrush.....																									
2. Worms.....																									
3. Disease of Scalp.....																									
CLASS II.—CONSTITUTIONAL.....		49	25	21	38	38	2	7	46	84	1	104	5	3	35	9	68	37	4	00	13	1	46	7	14
II.—ORDER 1. Diathetic.....		11	5	11	10	14	.....	8	24	1	21	2	1	9	1	21	11	.....	20	6	1	23	2	8	2

1. Gout.....	1	1	1	2	3	1	8	4	1	3	2	2	4	5	10	1	3
2. { Anemia.....	6	1	5	5	9	6	6	1	10	3	7	4	7	1	2	1	1
{ Dropsy.....	3	2	5	1	1	1	7	5	1	3	1	12	9	1	2	2	2
3. Cancer.....	1	1	2	1	1	1	1	1	1	1	1	3	1	1	1	2	2
4. Noma (Canker).....																	
5. Mortification.....																	
II.—ORDER 2. Tubercular.....	38	20	10	28	24	2	7	38	60	83	3	2	26	8	47	26	4
1. Scrofula.....				1				3	1	4			1				
2. Consumption of Bowels.....	2								3	5			3				1
3. Pthisis (Consumption of Lungs).....	36	17	10	27	24	2	7	35	56	74	3	2	24	8	44	25	4
4. Hydrocephalus.....		2											1				
5. Marasmus.....		1															1
CLASS III.—LOCAL DISEASES.....	72	47	22	99	89	2	11	108	112	4	143	12	9	77	12	110	68
III.—ORDER 1. Nervous System.....	22	19	3	34	33	1	3	34	40	1	50	2	4	27	7	41	24
1. Cephalitis.....	4	9	1	4	4			3	4		14		1	1	1	4	5
2. Apoplexy.....	5				1				2					2	1	1	
3. Paralysis.....	7	2		10	6			9	6	1				2	2	13	3
4. Insanity.....									7						1		
5. Chorea.....																	
6. { Dementia, Epileptic.....									1								
{ Epilepsy.....				2					2	1		1	1				1
7. Tetanus.....																	
{ Convulsions.....																	
8. { Hysteria.....				4	2	1			4	4		14	1	8	3	5	1
{ Spasm of Glottis.....																	
9. { Brain Diseases.....	2																
{ Dropsy of Brain.....	1				4	1		4	7		6	1	3	6	8	5	1
								2	2	1		1	1	1	1	3	3

[illegible]

IV.—ORDER 1. Developm'l Diseases of Children...																									
1. Still-born.....	1	11	5	7	7	1	9	11	1	30	6	2	3	2	6	7	11	3	4	22	15	1	4	22	2
2. { Infantile				1	2	1	1	1		6				1		4				1					
{ Premature Birth.....										2															
3. Cyanosis																									
4. Spina Bifida.....																									
5. Other Malformations.....										1															
6. Teething	5					2	1			4							1		6	1	1				
7. Injury at Birth.....																									
IV.—ORDER 2. Developm'l Diseases of Women...																									
1. { Dysmenorrhea	3	3	1	4	5	2		4	4	12		2	5	1	4	1	2	3	2	1	5	3	1		
{ Turn of Life.....	1					1																			
2. { Childbirth	2	3	1	4	5	1	4	4		10		2	5	1	3	1	2	3	2	1	5	3	1		
{ Abortion										2															
{ Uterine Hemorrhage.....																									
IV.—ORDER 3. Developm'l Diseases of Old People																									
1. Old Age	8	2	2	10	10		2	10	11	20	1		7	1	21	8	1	9	3	2	5	1	3		
IV.—ORDER 4. Diseases of Nutrition.....																									
1. Atrophy and Debility																									
CLASS V.—VIOLENT DEATHS.....																									
V.—ORDER 1. Accident or Negligence.....																									
1. Fractures and Contusions.....	4	15	5	5	12	11	2	3	8	13	9		4	2	4	3	7			11			2		
2. Wounds	3			1	1			1	1	2	1				1		3			2					
3. Burns and Scalds.....	1		1			1				1															
4. Poison	1	2	2	1	3	1	1	2					2	1	1	1	2						1		
5. Drowning			1	1	1	1		1	1	1							1								
	5	1		3	6					4	1				2						6		1		

TABLE XVI.—CONTINUED.—Causes of Death, Classified.

CAUSES OF DEATH, 1874.		COUNTIES.																							
		Menominee.	Midland.	Manitowish.	Montcalm.	Muskegon.	Nowyogo.	Oakland.	Ocean.	Ontonagon.	Oscoda.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	
All Causes.....		2	42	3	202	191	170	50	285	89	28	50	298	6	568	160	20	168	355	207	158	271	355	1868	18
Specified Causes.....		1	35	3	234	166	136	45	268	70	21	47	266	6	307	134	15	150	309	197	133	251	332	1659	18
Causes not Specified.....		1	7	---	27	25	34	5	17	19	7	3	32	---	260	26	5	18	46	10	25	19	23	208	---
CLASSES.																									
I.-Zymotic Diseases.....		11	1	53	54	41	18	57	33	---	12	103	1	90	40	3	40	109	51	43	58	80	407	3	
II.-Constitutional Diseases.....		7	1	33	25	24	1	63	6	7	6	44	3	53	27	2	34	58	37	22	63	69	323	1	
III.-Local Diseases.....		9	1	111	57	41	20	104	18	7	16	73	1	104	49	1	54	86	78	50	92	119	482	8	
IV.-Developmental Diseases.....		6	---	25	22	21	4	30	9	4	8	28	1	45	10	7	14	31	18	8	20	47	232	6	
V.-Violent Deaths.....		1	2	12	8	9	2	11	4	3	5	18	---	15	8	2	8	25	13	10	18	17	125	---	
Unclassified.....		---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	1	---	
ORDERS.																									
I.-1. Miasmatic Diseases.....		11	1	52	54	39	18	56	33	---	12	103	1	90	40	2	39	105	49	43	58	78	481	3	
2. Ethnetic Diseases.....		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	7	
3. Dietic Diseases.....		---	---	1	1	1	---	1	---	---	---	---	---	---	---	---	1	---	2	---	---	1	7	---	
4. Parasitic Diseases.....		---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	4	---	---	---	---	2	1	
II.-1. Diabetic Diseases.....		1	1	8	6	9	---	27	2	---	3	14	3	17	14	---	12	20	7	6	18	25	101	---	
2. Tubercular Diseases.....		6	---	25	19	15	1	39	4	7	3	30	---	36	13	2	92	38	30	16	45	44	232	1	

1.—ORDER 1. Miasmatic.....		11	1	52	54	59	18	56	33	12	103	1	90	40	2	39	105	49	43	58	78	481	3
1. { Chicken-pox.....													1									2	
{ Small-pox.....							4							1	1	1	1	1				2	
2. Measles.....				1	1	1					2		1									8	
3. Scarlatina.....		3	4	10	7	1	13	7			9		6	13		3	18	2	29	2	8	64	
4. Diphtheria.....				3	1						7		9			1	10	7	6		1	44	
5. Quinsy.....											5										1	1	
6. Croup.....		1	4	1	3		4	2			1	9		2		1	2	3		3	2	26	1
7. Whooping-cough.....					1	1	1	6	2		5		12	1		3	13	4	1	6	2	16	
{ Continued Fever.....																							
8. { Typhoid Fever.....		1	18	15	8	3	11	1			3	10		21	7		11	17	8	4	17	20	88
{ Typhus Fever.....							2					1				1						2	
{ Typho-malarial Fever.....																							
9. { Blood Poison.....																							
{ Erysipelas.....			2	3		1	6				1	5	1			1	1	2	1	3	2	12	
10. Puerperal Fever.....				2							4		1				1	2	1	2	2	3	
11. Carbuncle.....																							
12. Influenza.....																							
13. Dysentery.....		3	1	2	5	3	2	2	12		14		3	2		4	5	1		4	11	17	
14. Diarrhea.....		1	3	1	3	1	1	2	2		5	14	1	14	5		1	15	6	1	1	137	1
15. Cholera Infantum.....		1	5	6	1	2	5	5	5		1	5	2	2	1		6	8	9	12	13	33	
16. { Cholera Morbus.....				1				1					2	2							1	1	
{ Cholera.....												1							1				
17. Ague.....			6	3	1	1	3	1			6		8	2		4	4	2		5	4	7	
18. { Fever.....		1	4	2	6						1	2	3			1	5	1		1	3	4	
{ Remittent Fever.....													5	3									
19. Rheumatism.....				8	5		1				3		5	3			4	1		1	1	7	
							1	1			1		1	1	1	1	1	1		1	4	9	

COUNTRIES.

	Menominee,	Midland,	Missaukee,	Monroe,	Montcalm,	Muskegon,	Newaygo,	Oakland,	Ocean,	Ononagon,	Oscoda,	Ottawa,	Presque Isle,	Saginaw,	Sault Ste. Marie,	Shiawassee,	St. Clair,	St. Joseph,	Tuscola,	Van Buren,	Washtenaw,	Wayne,	Wexford.
L-Order 2. Ethnetic.....
1 Syphilis.....
{ Stricture of Urethra.....
} Stricture.....
2 Hydrophobia.....
4 Glanders
L-Order 3. Dietic.....
1 Privation
{ Parpura.....
} Rachitis.....
Scurvy.....
2 Delirium Tremens (Alcoholism).....
4 Intemperance
L-Order 4. Parasitic.....
1 Thrush.....
2 Worms
3 Disease of Scalp.....
CLASS II.—CONSTITUTIONAL.....	7	1	33	25	24	1	66	6	7	6	44	3	83	27	2	34	98	37	22	63	69	323	1
II—ORDER 1. Diabetic.....	1	1	8	6	9	.....	27	2	.....	3	14	3	17	14	.....	17	20	7	6	18	23	101	.....

[illegible]

[illegible]

IV.—ORDER 1. Developmental Dia. of Children.....																							119	4
1. Still-born.....	5	6	10	14	2	8	4	2	5	15	1	34	3	5	6	9	5	3	12	21	119	4		
2. { Infantile	5	6	10	5	2	7	4	2	5	12	1	26	3	5	5	8	5	3	4	16	74	4		
2. { Premature Birth.....				4								1							1		1			
3. Cyanosis.....												1							5	1	4			
4. Spina Bifida.....						1																1		
5. Other Malformations.....																			2					
6. Teething.....				5						3		6			1	1				4	39			
7. Injury at Birth.....																								
IV.—ORDER 2. Developm't Dia. of Women.....																							1	
1. { Dysmenorrhoea.....			6	9	2	5	2	2	3	5		8	3		1	6	5	1	3	5	36	1		
1. { Turn of Life.....			1																					
2. { Childbirth.....			5	9	2	5	1		3	5		8	2		1	6	5	1	3	5	33	1		
2. { Abortion.....							1														1			
2. { Uterine Hemorrhage.....								2					1								2			
IV.—ORDER 3. Developmental Dia. of Old People.....																							1	
1. Old Age.....			13	3	5	2	17	3		8		3	4	2	7	16	8	4	5	21	77	1		
			13	3	5	2	17	3		8		3	4	2	7	16	8	4	5	21	77	1		
IV.—ORDER 4. Diseases of Nutrition.....																								
1. Atrophy and Debility.....																								
CLASS V.—VIOLENT DEATHS.....																							1	
V.—ORDER 1. Accident or Negligence.....			12	8	9	2	11	4	3	5	13	16	8	2	8	25	13	10	18	17	125			
1. Fractures and Contusions.....			7	5	7	2	6	3	2	2	12	11	4	1	5	17	6	8	13	7	85			
2. Wounds.....			4			1	1			1		1			1	1	1	1	1	1	20			
3. Burns and Scalds.....									1			3									1	2		
4. Poison.....			3		1		1	2			3	2	2		2	3	2	3	2	2	11			
5. Drowning.....			1				1				1								1	2	4			
			1		1	4	1				5	4	2	1		10	2		5	1	28			

TABLE XVII.—*Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died during the Year ending December 31, 1874; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1869 to 1874, inclusive (Still-births included).*

DEATHS FROM ALL CAUSES.																																					
SEX.	MONTHS, 1874.												YEARS.					AGES IN PERIODS OF YEARS,—1874.																			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1874.	1873.	1872.	1871.	1870.	1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
	655	672	919	1102	1071	866	965	1388	1517	1211	968	1120	46	12500	14258	13371	9728	10766	9145	5138	594	359	530	618	514	434	440	390	384	397	398	409	454	434	318	407	231
	335	349	500	606	551	471	524	736	862	640	517	606	28	6665	7631	7182	5190	5689	4796	2828	321	183	235	273	227	184	180	202	224	231	232	253	272	252	191	204	124
	320	319	416	436	518	395	435	651	711	567	448	510	18	5804	6590	6162	4503	5140	4306	2280	273	176	295	345	287	250	251	188	160	166	166	167	182	182	127	203	106
Un...	4	3	...	2	...	...	6	1	4	4	3	4	..	31	17	27	35	37	43	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1

CAUSES OF DEATHS, SPECIFIED.

[illegible]

Includes 1 Cyanosila.

^a Includes 1 Cyanosis. ^b Includes 1 "Concussion of"; 1 "Enlargement of."

^a Includes 1 Cyanosis.
^b Includes 1 "Enlargement of"; 1 "Hemorrhage of" and 1 "Ulceration of."

• Includes 1 "Cramp of."

Includes

TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1874.												YEARS.										CAUSES OF DEATH.	AGES IN PERIODS OF YEARS,—1874.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1874.	1873.	1872.	1871.	1870.	1869.	Under 5.	5 to 10.	10 to 15.		15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Females..	2	3	6	7	4	6	7	12	6	5	2	66	81	82	81	82	93	44	5	1	2	2	1	1	1	2	3	1</

CAUSES OF DEATHS, SPECIFIED.

219

Total.....	4	2	--	4	7	2	--	4	6	4	--	38	52	30	49	62	68	Burns	21	8	--	1	--	1	--	1	--	2						
Males	1	1	--	1	2	1	--	1	5	1	--	13	19	11	15	24	22	"	8	2	--	1	--	--	--	--	1	--						
Females..	3	1	--	3	5	1	--	3	1	5	4	26	33	19	34	38	46	"	13	6	--	--	--	1	--	1	--	2						
Males.....	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	Cancer, Lupus.....	--	--	--	--	--	--	--	--	--	--						
Females..	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	Cancerous Ossification of Stomach..... ^b	--	--	--	--	--	--	--	--	--	--						
Total.....	11	11	14	13	20	17	18	16	21	--	--	188	171	130	105	120	113	Cancer.....	7	--	--	2	2	3	16	25	24	21	8	7	1			
Males.....	4	2	6	5	10	8	10	7	9	10	--	84	75	56	48	47	47	"	6	--	--	1	--	1	7	10	8	9	12	11	8	6	5	
Females..	7	5	9	8	10	7	11	9	9	11	--	104	96	74	57	73	66	"	1	--	--	1	2	--	3	9	16	13	13	13	2	1		
Males.....	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	Canker Rash.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total.....	1	1	2	1	1	3	7	2	3	--	--	31	49	59	35	37	47	Canker (Noma).....	28	--	--	1	--	1	--	1	--	--	--	--	--	--	--	
Males	--	1	1	1	--	--	2	3	5	1	--	16	26	31	14	17	24	"	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Females..	1	--	1	1	1	5	--	2	1	2	--	15	23	28	21	20	23	"	12	--	--	1	--	1	--	1	--	--	--	--	--	--	--	
Females..	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	Carbuncle on Head.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Males.....	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	Carbuncle on Neck.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Males....	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	Carbuncle.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total.....	3	5	12	17	14	16	28	21	24	19	--	182	222	75	246	177	176	Casualty..... ^c	21	13	17	21	18	19	6	10	9	7	8	4	5	5	1	4
Males.....	3	5	9	15	13	11	26	19	18	14	16	155	186	153	216	132	149	"	11	12	15	21	15	18	6	10	6	7	7	4	4	3	4	
Females..	--	1	3	2	1	5	2	2	6	2	3	27	36	22	30	25	27	"	10	1	2	--	3	1	--	1	--	3	1	1	2	1	--	
Males.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	Catarrh in Head.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Females..	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Males....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	Catarrh of Lungs.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total.....	1	--	1	--	1	--	1	--	1	--	--	5	6	6	2	1	6	Catarrh.....	--	--	--	--	--	--	1	--	1	--	1	--	1	--	1	
Males.....	--	--	--	--	--	--	--	--	--	--	--	2	5	5	2	1	4	"	--	--	--	--	--	--	1	--	1	--	1	--	1	--	1	
Females..	1	--	1	--	1	--	1	--	1	--	--	3	1	1	--	--	--	"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Males.....	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	Chest Disease.....	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Females..	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Includes 1 "Bronchial Catarrh."

See Exhibit S, following.

c See Exhibit R, following.

CAUSES OF DEATHS, SPECIFIED.

223

Females..	2	3	6	5	9	6	8	11	4	9	3	6	72	86	68	57	58	52	"	36	2	2	1	1	3	2	2	4	3	7	4	6
Unknown													1					1														
Males.....																1			Defective Organization.....													
Unknown																1			Deformity of Head.....													
Total.....	1	1	1	1	1	2	1	1	1	2	1		6	16	12	8	4	2	Delirium Tremens.....				1	1	1	1	1	1	1	1	1	
Males.....													5	15	12	8	4	2	"				1	1	1	1	1	1	1	1	1	
Females..	1	1	1	1	1	1	1	1	1	1	1		1	1				"														
Males.....																1			Delirium.....													
Males.....	1	1	1	1	1	1	1	1	1	1	1		1					Dementia, Chronic.....														
Females..													2					"														
Males.....	1	1	1	1	1	1	1	1	1	1	1		1					Dementia, Epileptic.....														
Total.....	1	1	1	1	2	1	1	1	1	1	1		3	1				Dementia, Paralytic.....				1	1	1	1	1	1	1	1	1	1	
Males.....	1	1	1	1	1	1	1	1	1	1	1		1	1				"														
Females..	1	1	1	1	1	1	1	1	1	1	1		2					"														
Total.....	1	1	1	1	2	2	1	1	1	1	1		3					Dementia.....														
Males.....	1	1	1	1	1	1	1	1	1	1	1		2					"														
Females..	1	1	1	1	1	1	1	1	1	1	1		1					"														
Females..	1	1	1	1	1	1	1	1	1	1	1		1					Diabetes, Mellitis.....														
Total.....	4	2	1	2	1	2	4	3	1	2	3		27	30	35	33	29	25	Diabetes.....				2	3	2	1	2	1	2	4		
Males.....	3	1	1	1	1	1	1	1	1	1	1		17	18	27	24	19	19	"				2	2	1	1	1	1	3	2	3	
Females..	1	1	1	1	1	1	1	1	1	1	1		10	12	8	9	10	6	"				1	1	1	1	1	1	1	1	1	
Total.....	1	1	1	1	1	1	1	1	1	1	1		15	27	29	23	29	16	Diarrhea, Chronic.....				7	1	1	1	1	1	1	2		
Males.....	1	1	1	1	1	1	1	1	1	1	1		10	19	19	16	16	11	"				4	1	1	1	1	1	1	1	1	
Females..	1	1	1	1	1	1	1	1	1	1	1		5	8	10	7	13	5	"				3	1	1	1	1	1	1	1	1	
Total.....	4	2	9	12	13	23	59	101	82	35	15	9	365	356	408	193	378	295	Diarrhea.....				342	4	1	2	2	1	1	5	2	1
Males.....	3	7	6	6	10	34	54	51	20	9	7		208	189	240	100	191	163	"				196	2	1	1	1	1	1	1	1	1

* Includes 2 "Exhaustion."

CAUSES OF DEATHS, SPECIFIED.

229

[illegible]

Includes 2 Worm Fever, and 7 Worm Fits.

^b Includes 1 "Intestine Fever," and 1 "Typhoid Delirium."

Includes 1 "Malarial Fever."

[illegible]

CAUSES OF DEATHS, SPECIFIED.

237

[illegible]

Includes 1 "Epizootic."

^bIncludes 3 "Alcoholism," and 1 "Whisky Fits."

^c See Intussusception.

[illegible]

^a Includes 1 "Eating Matches," 1 "by Milk," 3 "by Morphine," 1 "by Paris Green," and 1 "by Strychnine."
^b Includes 1 "Scurvy" and 3 "purpura Hemorrhagica."

a Includes 1 "Eating Matches;" 1 "by Milk;" 3 "by Mor"
b Includes 1 "Sourvy;" and 2 "Purpura Hemorrhagica."

TABLE XVII.—CONTINUED.—Specified Causes of Death.

MONTHS, 1874.												AGES IN PERIODS OF YEARS,—1874.																				
SEX.	YEARS.												CAUSES OF DEATH.	Under 5.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.		Unknown.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Females..														Scald Head.....																		
Total.....	2	4	3	1	2	3	1	3	7	2				Scald.....	27	1	1	1	1	1	1				1							
Males.....	1	3	2	1	2	1	1	1	3	5	2			".....	19	1			1						1							
Females..	1	1	1			2	3				2			".....	8				1													
Females..														Scalp, Disease of.....																		
Total.....	34	52	55	71	46	50	18	27	29	31	19	28		Scarlet Fever.....	279	106	34	11	3	1	1	1	1	1	1							3
Males.....	20	27	31	40	24	14	10	15	14	10	15			".....	157	55	16	3	2	1												
Females..	14	25	24	31	22	16	8	12	15	17	9	13		".....	122	51	18	8	1	1	1	1	1	1								3
Unknown														".....																		
Males.....														Scurrhosis.....																		
Total.....	2	1	2	1	1	1	3	2	3	1	4			Scrophula.....	14	1	2	1	1	1	1	1	1	1			1	1	1	1	1	
Males.....	1	1	1	1	1	1	2	2		3				".....	8	2		1														
Females..	1	1	1	1	1	1	1	1	1	1	1			".....	6	1			1	1	1	1	1	1			1	1	1	1		
Males.....														Sea Sickness.....																		
Females..														".....																		
Males.....														Self Abuse.....																		
Males.....														"Shot Himself".....																		
Total.....			1	1					1	1	3			Skin Disease.....	2										1							
Males.....														".....	1																	
Females..														".....	1																	
Total.....	4	3	3	1	1	1	1	1	1	1	1	1		Small-pox.....	5	1		3	4	2	2		1									

CAUSES OF DEATHS, SPECIFIED.

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Total.....	1	2	1	1	1	1	1	1	8	6	11	7	20
Males.....	1	1	1	1	1	1	1	1	3	2	4	2	12
Females.....	2	1	1	1	1	1	1	1	5	4	7	5	8
Males.....											1		
Males.....									1				
Total.....	1	1	1	1	1	1	1	2					
Males.....								1					
Females.....	1							1					
Total.....	2	1	1					4	1	2			
Males.....	1	1						2	1	1			
Females.....	1		1					2		1			
Females.....			1					1					
Males.....										1			
Females.....													
Males.....										2			
Females.....										2			
Total.....	1		1		1		2	2	1	1	1	2	
Males.....								1					
Females.....	1							1	1	1	1	2	
Total.....	1	1	1	1	1	1	1	4	2	1			
Males.....	1		1		1		2	2	1				
Females.....		1					2	1					
Females.....										1			
Females.....													1
Males.....									2	1			
Females.....										1		1	

* Includes 1 "Inflammation of Windpipe from Swallowing a Bean."

Exhibit R is published for the purpose of showing the specific sources of danger to people, from accidents. There were 182 deaths returned as having been caused in 1874 by various casualties, very many of which might probably have been avoided by the exercise of that caution which should be caused by a knowledge of the danger. This exhibit is published in the hope that, having learned the special sources of danger, people may guard against them, and thus decrease the number of deaths from "Casualty."

Of the deaths compiled as Casualty in 1874, 24 were returned as having been caused by shooting. Though not definitely stated in all cases, it thus appears probable that the careless use of fire-arms in one year caused the death of 24 persons.

A careful examination of this exhibit is recommended to all readers in order to warn them of the nature of the dangers of death from what are called "accidental" causes, but which are in many cases preventable by means of intelligent caution.

EXHIBIT R.—Deaths in Michigan in 1874, Compiled as Casualty.

CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths	CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths
Total number tabulated as Casualty in Table XVII.....	182	Accidentally Killed.....	13
Accident.....	24	Accident in Shingle-mill.....	1
Blast in Mine.....	2	Killed by Team running away.....	2
Shock from caving of Rock.....	1	Injured by a Fall.....	5
Crushed in Mine by falling of Rock.....	1	Fall from a Wagon.....	4
Accidentally Crushed in Mine.....	3	Killed with Field Roller.....	1
Accident in Sand Bank.....	1	Accident,—Shot Himself.....	6
Accident in Mine.....	5	Kick of a Horse.....	6
Fall in Mine.....	1	Killed in Grain Bin.....	1
Accidentally Shot.....	24	Horse ran away, fracturing Skull.....	1
Sore on Limb caused by Sprain.....	1	Fell in front of Reaper while cutting Wheat	1
Accident,—Jammed by a Log.....	1	Killed by Log rolling on Him.....	1
Killed in Woods.....	3	Falling from Barn.....	1
Accidentally Killed while felling Timber..	1	Killed between two Logs.....	1
Killed,—Falling Earth.....	1	By Falling Lumber.....	2
Fell out of child's hands on the Stove.....	1	Killed by falling of a Gate.....	1
Killed by Explosion of Boiler.....	1	From being hurt in Saw-mill.....	1
Horse ran away.....	1	Crushed to Death.....	1
Injury in Bowels from fall.....	1	Thrown from a Horse.....	3
Falling off a Tree.....	2	Killed.....	5
Thrown from a Wagon.....	13	Killed in Grist-mill.....	1
Accident in Car Shop.....	1	Killed by a Tree.....	1
Killed in Saw-mill.....	2	Fall from Building, Accidental.....	2
		Accident,—Broke Neck.....	2

EXHIBIT R.—CONTINUED.—*Deaths from Casualty, 1874.*

CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths.	CASUALTY,—CAUSES AS RETURNED, 1874.	No. of Deaths.
Run over by a Wagon.....	1	Killed by Street Cars.....	2
Killed by Falling.....	4	Killed,—falling from Horse.....	1
From Injuries received from Horses.....	1	Dislocation of Neck by Falling.....	1
Killed by Locomotive while crossing R. R....	1	Accidentally killed by Wagon.....	1
Run over by Cars in attempting to jump off while in motion.....	1	Killed by a Horse.....	1
Killed by Bursting of a Cannon.....	1	Wounded in Machinery.....	1
Kicked by a Colt.....	1	Accident,—Cut of an Ax.....	1
Killed by Explosion.....	1	Damp in Well.....	1
Fell from Scaffold.....	1	Drinking Lye by mistake.....	1
Broken Neck,—fell from Load of Hay.....	1	Killed by a Bull.....	1
Run over by R. R. Locomotive.....	2	Swallowed a Penny.....	1
Crushed by Track.....	1	Swallowed a piece of Glass.....	1

Exhibit 9 contains data concerning suicides in Michigan in 1874. There were 53 deaths returned from suicide,—31 males and 22 females. Of the different occupations, the largest number is shown for those who were reported to be farmers; of the different nativities, the largest number were born in Michigan; and of the means used, the largest number of those specified was hanging. Poison and hanging seem to be the means most generally used by suicides.

The number of suicidal deaths returned for 1874 is greater than for any previous year, the order of the years, those having the greatest number first, being: 1874, 53 deaths from suicide; 1871, 40; 1873, 39; 1872, 35; 1870, 34; 1869, 23. The greatest proportion of males is shown for 1873, the smallest for 1874.

EXHIBIT 9.—*Certain Facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1874.*

Month.	Day.	Age.	Condition.	Sex.	Color.	Occupation.	Nativity.	Means Used.
January...	3	59	Married.	Male....	White...	Farmer.....	Ireland.....	Hanging.
January...	6	50	Married.	Male....	White...	Land Agent....	New York...	Poison.
January...	10	23	Married.	Female..	White...	House-keeper..	Ohio.....	Hanging.
January...	12	35	Single...	Male....	White...	Farmer.....	Pennsylvania..	Not given.
January...	18	58	Widow..	Female..	White...	Laborer.....	Germany....	Not given.
January...	30	36	Single...	Female..	White...	Servant.....	Ireland.....	Not given.
January...	36	50	Married.	Male....	White...	Farmer.....	Italy.....	Gun-shot.
February..	16	36	Married.	Male....	White...	Peddler.....	Prussia.....	Pistol-shot.
February..	20	Unk.	Unk.....	Male....	White...	Unknown.....	Unknown....	Not given.
February..	23	30	Single...	Female..	White...	Prostitute....	Wisconsin...	Morphine.
March.....	10	30	Married.	Female..	White...	Printer.....	Michigan....	Not given.
March.....	17	53	Married.	Male....	White...	Farmer.....	Germany....	Gun-shot.
March.....	19	25	Unk.....	Female..	White...	Unknown.....	Unknown....	Not given.
March.....	28	16	Single...	Female..	White...	House-worker..	Michigan....	Drowning.
April.....	22	55	Married.	Female..	White...	House-keeper..	New York...	Cutting throat.
May.....	5	21	Single...	Male....	White...	Laborer.....	England.....	Poison.
May.....	13	21	Single...	Male....	White...	Farmer.....	Michigan....	Cutting throat. ^a
May.....	14	45	Married.	Male....	White...	Tinner.....	Germany....	Not given.
May.....	30	24	Single...	Male...	White...	Laborer.....	Massachusetts.	Hanging.
June.....	9	67	Married.	Male....	White...	Farmer.....	New York...	Not known.
June.....	5	23	Married.	Female..	White...	Unknown.....	Michigan....	Morphine.
June.....	25	23	Married.	Male....	White...	Builder.....	New York...	Not given.
June.....	27	18	Single...	Female..	White...	Unknown.....	Michigan....	Poison.
June.....	27	23	Single...	Female..	White...	Domestic.....	New York...	Poison.
July.....	1	35	Married.	Male....	White...	Farmer.....	Michigan....	Hanging.
July.....	14	19	Unk.....	Female..	White...	Servant.....	Michigan....	Not given.
July.....	14	27	Single...	Male....	White...	Mason.....	Michigan....	Not given.
July.....	15	44	Married.	Male....	White...	Laborer.....	Scotland....	Poison.
July.....	15	57	Married.	Male....	White...	Drayman.....	England.....	Not given.
August....	1	60	Married.	Female..	White...	Farmer's Wife..	Germany....	Hanging.
August....	12	Unk.	Single...	Female..	White...	Domestic.....	Germany....	Drowning.
August....	29	50	Married.	Male....	White...	Farmer.....	New York...	Not given.
August....	31	77	Widower	Male....	White...	Unknown.....	England.....	Not given.
September	7	53	Married.	Male....	White...	Painter.....	Unknown....	Poison.
September	10	38	Single...	Male....	White...	Wood Chopper..	Unknown....	Not given.
September	26	Unk.	Unk.....	Female..	White...	Unknown.....	Unknown....	Not given.
October...	1	48	Married.	Male....	White...	Farmer.....	New York...	Not given.
October...	3	26	Married.	Female..	White...	House-keeper..	Michigan....	Drowning.

^a "Insanity."

EXHIBIT 9.—CONTINUED.—*Suicidal Deaths, 1874.*

Month.	Day.	Age.	Condition.	Sex.	Color.	Occupation.	Nativity.	Means Used.
October...	6	22	Single...	Female..	White...	Unemployed...	Michigan...	Hanging.
October...	23	29	Married.	Female..	White...	Unemployed...	England...	Poison.
October...	31	48	Married.	Male....	White...	Cabinet-maker..	Belgium....	Not known.
November	1	82	Widower	Male....	White...	Gentleman.....	Ireland.....	Not given.
November	15	34	Married.	Female..	White...	House-keeper...	New Jersey..	Drowning.
November	15	19	Single...	Male....	White...	Laborer.....	Canada.....	Not given.
November	18	22	Single...	Male....	White...	Farmer.....	Pennsylvania.	Hanging.
November	25	40	Married.	Male....	White...	Laborer.....	Unknown....	Hanging.
November	27	16	Single...	Female..	White...	Unemployed...	Michigan....	Not given.
December.	1	21	Married.	Female..	White...	House-keeper...	Michigan....	Not given.
December.	2	47	Married.	Male....	White...	Tanner.....	Germany....	Hanging.
December.	2	69	Widower	Male....	White...	Farmer.....	Vermont.....	Not given.
December.	9	48	Married.	Male....	White...	Farmer.....	New York....	Not given.
December.	10	52	Single...	Male....	White...	Laborer.....	New York....	Laudanum.
December.	15	22	Married.	Female..	White...	House-keeper...	Michigan....	Poison.

OCCUPATIONS.	No.	OCCUPATIONS.	No.	OCCUPATIONS.	No.
Builder.....	1	House-worker.....	1	Servants.....	2
Cabinet-maker.....	1	Laborers.....	7	Tanner.....	1
Domestics.....	2	Land Agent.....	1	Tinner.....	1
Drayman.....	1	Mason.....	1	Unemployed.....	3
Farmers.....	12	Painter.....	1	Unknown.....	6
Farmer's Wife.....	1	Peddler.....	1	Wood-chopper.....	1
Gentleman.....	1	Printer.....	1	Total.....	53
House-keepers.....	6	Prostitute.....	1		

NATIVITY.	No.	NATIVITY.	No.	NATIVITY.	No.
Belgium.....	1	Massachusetts.....	1	Prussia.....	1
Canada.....	1	Michigan.....	13	Scotland.....	1
England.....	4	New Jersey.....	1	Unknown.....	6
Germany.....	6	New York.....	9	Vermont.....	1
Ireland.....	3	Ohio.....	1	Wisconsin.....	1
Italy.....	1	Pennsylvania.....	2	Total.....	53

MEANS USED.	NUMBER.		MEANS USED.	NUMBER.		MEANS USED.	NUMBER.	
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.
Cutting Throat.....	1	1	Hanging.....	6	3	Not given.....	16	8
Drowning.....	4	4	Laudanum.....	1	1	Poison.....	4	4
Gun-shot.....	3	3	Morphine.....	2	2	Total.....	31	23

Table XVIII. shows the number and proportion of deaths returned as having occurred from each of fifteen principal causes of death in Michigan in 1874. The proportion of deaths from Consumption was nearly twice as large as from any other cause in 1874, and in 1873 and 1872 the relative proportion was still greater. More than half of the deaths returned as having occurred in 1874 were charged to fifteen causes, as is the case with each of the years 1870-1872; but in 1873 the proportion was a little less than half. The per cent. of deaths from fifteen principal causes to deaths from all causes, for each of the years 1870-1874, is as follows: 1870, 56.85; 1871, 52.64; 1872, 50.63; 1873, 48.67; 1874, 52.23 per cent. Twelve of the fifteen causes specified in table XVIII. are in the corresponding table for 1873, and thirteen of those in the table for 1873 would appear in 1874 were it not that in 1874 one was crowded out by the still-births being included in the list, whereas in previous years they were left out.

The still-born decedents are included in this table, grouped as in that condition, not as deaths due to a single cause any more than are those reported as having occurred from old age. If the number of still-born children in this State in each year ranks so high among the principal causes of death (being fourth in rank in 1874), an exhibition of that fact may lead to special study of the causes of that condition, which may result in some definite and useful knowledge on the subject. Table XVIII. may be compared with Exhibit 8, page 178.

TABLE XVIII.—*Order of Succession of Fifteen Principal Conditions and Causes of Death, exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from All Causes, for the year ending Dec. 31, 1874.*

ORDER.	SPECIFIED CAUSES AND CONDITIONS, 1874.	NUMBER OF DEATHS.			PER CENT. FROM EACH CAUSE TO DEATHS FROM ALL CAUSES.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption.....	1,392	656	736	11.14	9.84	12.66
2	Pneumonia.....	a 800	469	330	6.40	7.04	5.69
3	Typhoid Fever.....	610	317	293	4.88	4.76	5.05
4	Still-born.....	b 464	257	181	3.71	3.86	3.12
5	Scarlet Fever.....	440	234	206	3.52	3.51	3.55
6	Old Age.....	428	195	233	3.42	2.95	4.01
7	Diarrhea.....	380	218	162	3.04	3.27	2.79
8	Heart Disease.....	320	175	145	2.56	2.63	2.50
9	Dysentery.....	304	161	143	2.43	2.42	2.45
10	Cholera Infantum.....	278	163	115	2.22	2.45	1.98
11	Brain, Inflammation of.....	261	144	117	2.09	2.16	2.02
12	Dropsy.....	226	104	122	1.81	1.56	2.10
13	Diphtheria.....	213	107	106	1.70	1.61	1.83
14	Bowels, Inflammation of.....	208	117	91	1.66	1.76	1.57
15	Lung Disease.....	205	126	79	1.64	1.81	1.36
Total.....		d 6,529	3,443	3,086	52.23	51.66	52.71
All Causes.....		e 12,500	6,665	5,834	100.00	100.00	100.00

a Includes 1 unknown sex.
d Includes 27 unknown sex.

b Includes 26 unknown sex.
e Includes 31 unknown sex.

c Includes Acute and Chronic.

FIFTEEN PRINCIPAL CAUSES OF DEATH.

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EXHIBIT T.—Order of Succession of Fifteen Principal Causes of Death, in Michigan, for each of the Years 1869-1874.

Order.	1869.	1870.	1871. ^a	1872.	1873.	1874.
1	Consumption.....	1,233 Consumption.....	1,431 Consumption.....	1,308 Consumption.....	1,467 Consumption.....	1,447 Consumption.....
2	Typhoid Fever.....	437 Scarlet Fever.....	832 Scarlet Fever.....	298 Pneumonia.....	641 Pneumonia.....	703 Pneumonia.....
3	Pneumonia.....	427 Typhoid Fever.....	574 Pneumonia.....	441 Typhoid Fever.....	620 Typhoid Fever.....	677 Typhoid Fever.....
4	Old Age.....	310 Diarrhea.....	407 Old Age.....	373 Scarlet Fever.....	551 Scarlet Fever.....	573 Still-born.....
5	Diarrhea.....	298 Pneumonia.....	376 Typhoid Fever.....	357 Dysentery.....	436 Old Age.....	428 Scarlet Fever.....
6	Scarlet Fever.....	222 Dysentery.....	374 Casualty.....	246 Diarrhea.....	437 Spinal Fever.....	428 Old Age.....
7	Heart Disease.....	232 Old Age.....	313 Convulsions & Fits.....	237 Old Age.....	400 Diarrhea.....	356 Diarrhea.....
8	Fever.....	248 Convulsions & Fits.....	281 Heart Disease.....	230 Cholera Infantum.....	384 Brain, Infl. of.....	333 Heart Disease.....
9	Dropsy.....	246 Heart Disease.....	258 Diarrhea.....	216 Brain, Infl. of.....	330 Heart Disease.....	315 Dysentery.....
10	Dysentery.....	238 Dropsy.....	246 Brain, Infl. of.....	215 Convulsions & Fits.....	315 Dysentery.....	313 Cholera Infantum.....
11	Brain, Infl. of..... ^b	238 Brain, Infl. of..... ^b	233 Apoplexy & Paral.....	214 Small-pox.....	302 Cholera Infantum.....	306 Brain, Infl. of.....
12	Convulsions & Fits.....	222 Brain Disease.....	214 Dropsy.....	210 Heart Disease.....	301 Convulsions & Fits.....	306 Convulsions & Fits.....
13	Brain Disease.....	204 Bowels, Infl. of..... ^c	187 Bowels, Infl. of.....	184 Bowels, Infl. of.....	224 Bowels, Infl. of.....	226 Apoplexy & Paral.....
14	Apoplexy & Paral.....	185 Cholera Infantum.....	181 Brain Disease.....	173 Apoplexy & Paral.....	225 Childbirth.....	254 Dropsy.....
15	Casualty.....	176 Casualty.....	174 Dysentery.....	178 Childbirth.....	218 Apoplexy & Paral.....	261 Diphtheria.....

^a This is somewhat different from the similar Exhibit in Report for 1871 because Convulsions and Fits are here combined, as are also Apoplexy and Paralysis, thus changing the order of succession.

^b "Cephalitis" in Reports previous to 1871.

^c "Enteritis" in Reports previous to 1871.

Exhibit T is somewhat similar to Table XVIII., and shows the number of deaths from fifteen principal causes, in each of the years 1869-1874, the diseases being arranged in order,—those causing the greatest number of deaths first. In this exhibit Apoplexy and Paralysis are combined, as are Convulsions and Fits, which changes the order and leaves out some of the diseases included in Table XVIII., because the combination above mentioned crowded them out of the list of fifteen which ranked higher. There are eight diseases which appear in the list each year, and Consumption heads the list in each case.

TABLE XIX.—Deaths, in Michigan, from Ten Specified Causes during the Year 1874, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age, according to the returns.

SEX, MONTHS, AND AGES.		TEN CAUSES OF DEATH IN 1874.									
		Cancer.	Cepha- litis.	Croup. ^a	Diar- rhea. ^b	Diph- theria.	Dysen- tery. ^c	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing- cough.
SEX.	Total.....	188	261	142	380	213	304	46	440	610	158
	Males.....	84	144	73	218	107	161	21	234	317	66
	Females.....	104	117	69	162	106	143	25	206	293	86
	Unknown.....	—	—	—	—	—	—	—	—	—	1
MONTHS.	January.....	11	16	14	4	16	—	2	34	33	9
	February.....	11	12	15	2	11	6	4	52	23	6
	March.....	11	17	13	10	11	4	4	55	23	16
	April.....	14	19	9	12	11	4	1	71	24	14
	May.....	13	17	8	14	11	4	1	46	31	8
	June.....	20	16	3	23	8	4	12	30	24	14
	July.....	18	17	7	61	9	21	8	18	30	13
	August.....	17	38	7	104	17	102	5	27	50	22
	September.....	18	49	10	86	37	94	2	29	104	20
	October.....	16	28	14	39	23	48	4	31	123	12
	November.....	18	19	21	15	26	10	2	19	92	9
	December.....	21	13	21	9	33	6	1	28	51	10
	Unknown.....	—	—	—	1	—	1	—	—	3	—
	Av. Month..... ^d	15.67	21.75	11.83	31.67	17.75	25.08	3.83	36.67	50.58	12.75
AGES.	Under 5.....	7	178	120	349	115	239	31	279	61	146
	5 to 10.....	—	27	18	4	67	8	2	106	41	—
	10 to 15.....	—	12	1	1	15	2	2	34	46	—
	15 to 20.....	—	4	1	—	4	1	2	11	103	—
	20 to 25.....	2	11	—	3	2	4	2	3	74	—
	25 to 30.....	2	2	—	2	1	2	2	—	50	1
	30 to 35.....	1	4	—	—	1	2	1	1	42	—
	35 to 40.....	3	6	—	—	2	5	3	1	27	—
	40 to 45.....	16	4	—	—	2	3	—	—	28	—
	45 to 50.....	25	5	—	2	—	3	—	—	23	—
	50 to 55.....	24	1	—	—	—	2	—	1	22	—
	55 to 60.....	22	2	—	1	—	7	—	1	25	—
	60 to 65.....	25	3	—	2	1	4	—	—	25	—
	65 to 70.....	24	—	—	6	—	5	—	—	13	—
	70 to 75.....	21	—	—	2	—	7	—	—	12	—
	75 to 80.....	8	—	1	4	—	3	—	—	4	—
	80 and over.....	7	1	—	1	1	4	—	—	6	—
	Unknown.....	1	1	1	3	2	3	1	3	3	—

^a Includes 10 Membranous Croup, and 2 Spasmodic Croup. ^b Includes 15 Chronic Diarrhea.
^c Includes 3 Chronic Dysentery. ^d Excludes deaths in unknown month.

TEN SPECIFIED CAUSES OF DEATHS.

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TABLE XX.—*Per Cent. of Deaths during the Year ending December 31, 1874, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent. of each Sex, of Deaths in each Month and at Different Periods of Life, to Total Deaths from each Specified Cause.*

SEX, MONTHS, AND AGES.		TEN CAUSES OF DEATH IN 1874,—PER CENT.									
		Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing- cough.
Per Ct. of All Causes...		1.50	2.09	1.14	3.04	1.70	2.43	.37	3.52	4.98	1.23
SEX.	Males	44.68	55.17	51.41	57.37	50.23	52.96	45.65	53.18	51.97	43.14
	Females	55.32	44.83	48.59	42.63	49.77	47.04	54.35	46.82	48.03	56.21
	Unknown .....										.65
MONTHS.	January	5.85	6.13	9.86	1.05	7.51		4.35	7.73	5.41	5.88
	February	5.85	4.60	10.56	.53	5.16	1.97	8.70	11.82	3.77	3.92
	March	5.85	6.51	9.15	2.63	5.16	1.33	8.70	12.50	3.61	10.46
	April	7.45	7.28	6.34	3.16	5.16	1.32	2.17	16.14	3.93	9.15
	May	6.91	6.51	5.63	3.68	5.16	1.32	2.17	10.45	5.08	5.23
	June	10.64	6.13	2.11	6.05	3.76	1.32	26.09	6.82	3.93	9.15
	July	9.57	6.51	4.93	16.05	4.23	6.91	17.39	4.09	4.92	8.50
	August	9.04	14.56	4.93	27.37	7.98	33.55	10.87	6.14	8.20	14.38
	September	9.57	18.77	7.04	22.89	17.37	30.92	4.85	6.59	17.05	13.07
	October	8.51	10.73	9.86	10.26	10.80	15.79	8.70	7.05	20.16	7.84
	November	9.57	7.28	14.79	3.95	12.21	8.29	4.35	4.32	15.08	5.88
	December	11.17	4.98	14.79	2.37	15.49	1.97	2.17	6.36	8.36	6.54
	Unknown .....				.26		.33			.49	
Av. Month		8.33	8.33	8.33	8.31	8.33	8.31	8.33	8.33	9.29	8.53
AGES.	Under 5	3.72	68.20	84.51	91.84	53.99	78.62	67.39	63.41	10.00	95.42
	5 to 10		10.34	12.68	1.05	31.46	2.63	4.35	24.09	6.72	3.92
	10 to 15		4.60	.70	.96	7.04	.66	4.35	7.73	7.54	
	15 to 20		1.53	.70		1.68	.33	4.35	2.50	16.89	
	20 to 25	1.06	4.21		.79	.94	1.32	4.35	.68	12.13	
	25 to 30	1.06	.77		.53	.47	.66	4.35		8.20	.65
	30 to 35 .....	.53	1.53			.47	.66	2.17	.23	6.89	
	35 to 40	1.60	2.30			.94	1.64	6.52	.23	4.43	
	40 to 45	8.51	1.53			.94	.99			4.59	
	45 to 50	13.30	1.92		.53		.99			3.77	
	50 to 55	12.77	.38				.66		.23	3.61	
	55 to 60	11.70	.77		.26		2.30		.23	4.10	
	60 to 65	13.30	1.15		.53	.47	1.32			4.10	
	65 to 70	12.77			1.58		1.64			2.13	
	70 to 75	11.17			.53		2.30			1.97	
	75 to 80	4.26		.70	1.05		.99			.66	
	80 and over	3.73	.38		.26	.47	1.32			.98	
	Unknown .....	.53	.38	.70	.79	.94	.99	2.17	.68	1.31	

* Excluding deaths in unknown month.

The ten specified causes of death tabulated in Tables XIX. and XX. are studied in the corresponding tables for each year. Of the ten diseases, typhoid fever ranks the highest, and measles the lowest, in 1874. Consumption and pneumonia are two important diseases not included in these tables, because so thoroughly studied, each in connection with the other, further on. Of the other diseases mentioned in Tables XIX. and XX., those not further studied in connection with meteorological conditions or with other diseases are here noticed in alphabetical order; those which receive further study are considered as nearly as is practicable in alphabetical order after the tables and exhibits relating to meteorological conditions.*

Cancer.—The number of deaths returned as having been caused by cancer in 1874 was 188,—84 males and 104 females. The largest number was returned as having occurred in December, and of the different ages, the number between the ages of forty-five and fifty is the lowest. Of the 188 deaths from cancer, the location of the disease was stated in only 94 cases,—only half the number of deaths from cancer. There were 49 cases of cancer of the stomach,—more than one-quarter of all the deaths from cancer; and 13 cases of cancer of the breast. It is to be regretted that so many of the cancers are unspecified as to parts of body affected. Exhibit S shows the number, by sex, by part of body affected, as stated in the returns. For each of the years 1869–1870, there were more deaths of females than of males from cancer; and in 1874 there were more deaths from this disease than in any previous year, according to the returns.

EXHIBIT S.—*Deaths from Cancer returned as having occurred in Michigan during the Year 1874, indicating part of body affected.*

AS RETURNED, 1874.	Total.	Males.	Fe- males.	AS RETURNED, 1874.	Total.	Males.	Fe- males.
Cancer of Arm	1	1	-----	Cancer of Stomach.....	49	29	20
Cancer, "Blood".....	1	-----	1	Cancer of Throat.....	1	-----	1
Cancer of Bowels	1	-----	1	Cancer of Womb.....	7	-----	7
Cancer of Brain	1	1	-----	Internal Cancer in Abdomen	1	-----	1
Cancer of Breast.....	13	-----	13	Milk Cancer.....	1	1	-----
Cancer of Chin.....	1	1	-----	Rose Cancer.....	1	-----	1
Cancer of Face.....	6	4	2	Stone Cancer in Stomach....	1	1	-----
Cancer of Liver.....	2	2	-----	Tumor Cancer on the Tongue	1	-----	1
Cancer of Mouth.....	3	3	-----	Total Specified.....	94	44	50
Cancer of Neck.....	1	-----	1	Cancer (Unspecified).....	94	40	54
Cancer of Nose.....	1	1	-----				
Cancer of Stomach and Oesoph- agus.....	1	-----	1	Aggregate Deaths from Can- cer	188	84	104

* It may be remarked that the general plan of arrangement of material in this Report is to have those statements which are most general in character precede those which are more special; accordingly, statements of the total deaths in the State precede those for the several counties, statements for the year precede those for the several months, statements of deaths from all causes precede those from specified causes; after all specified causes follow statements of deaths from the group of causes compiled as casualty, then the group of modes of death by suicide, deaths from fifteen principal causes, deaths from ten causes, deaths from single causes, and these are usually considered in alphabetical order except when two or more diseases are best studied in connection with each other.

Cephalitis.—In 1874, 261 deaths were caused by Cephalitis, according to the returns, 144 of which were of males, and 117 of females. This is 2.09 per cent. of the deaths from all causes, and is less than the number returned for 1872 or 1873, and more than the number returned for the other years. In each year except 1870, there is an excess of male decedents from this disease. The largest proportion of the deaths occurred in September, the smallest in February. August, September, and October are the only months in which there was more than the monthly average proportion of deaths from Cephalitis. Of all the deaths from this disease in 1874, 68.20 per cent. were of persons under five years of age.

Measles.—There were 46 deaths from Measles returned for the Year 1874, which is .37 per cent. of the deaths from all causes,—a smaller proportion than for any previous year. This disease in 1874 was most prevalent in June, 26.09 per cent. of the deaths from measles having occurred in that month; and 67.39 per cent. of the decedents from this disease were under five years of age. Since 1869 the proportion of deaths from Measles has been constantly increasing with each year up to 1874, when it dropped down below any of the years 1870–1873.

Whooping-cough.—The number of deaths returned as having been caused by Whooping-cough in 1874 was 153, which is just half as many as were returned for 1873. The number of decedents from this disease in 1874 is 1.22 per cent. of decedents from all causes; in 1873 and in 1872, the number was 1.44 per cent. of the total deaths. The largest proportion in 1874 occurred in August, the least in February; and 95.43 per cent. were of persons under five years of age. There was only one decedent from this disease in 1874 reported to have been over ten years of age. There was an excess of males in 1872 and 1873, but in the other years the excess was of females.

METEOROLOGICAL CONDITIONS, AND THEIR RELATIONS TO DEATHS.

In this, as in preceding Reports, the meteorological conditions to which the most study is given are those observed at the State Agricultural College, near Lansing; because for this station we can secure the record of a more complete and continuous series of observations than at other points, and especially because it is near the center of the thickly-settled portion of the State, and therefore more nearly than other stations representative of the conditions which prevailed where the greatest proportion of the deaths in Michigan occurred.

In the last three Reports the most important meteorological data have been printed in tables in connection with statements relative to deaths from the different diseases being studied, and the few tables on meteorology alone have been placed near the close of the volume. In this Report the relations of deaths to meteorological conditions are more comprehensively studied, and it seems better to place the general meteorological tables preceding the special studies, so that reference may the more easily be made to them in the special study of any given disease. Accordingly Tables XXX., XXXI., and XXXII. appear in this part of the Report, but their numbers remain the same as in preceding Reports in order to avoid liability to errors in references. Exhibits 10, 11, and 12 are new ones, planned for this Report.

Exhibit 10, page 264, permits a comparison of the temperature in 1874, and in each month of the year 1874, with the temperature in each of the years, and in each month of the years, 1865 to 1874, inclusive, and with the average temperature for each month during the ten years, 1865–74.

Diagram No. 6, page 265, renders easy comparisons of temperature in each month of 1874, with that in any month during the years 1871 to 1874, inclusive, and also with the average temperature, for any given month, during the ten years ending with 1874. For 1874, the high temperature in January and the low temperature in April are quite noticeable.

Exhibit 11, page 268, makes possible a comparison of the absolute humidity of the atmosphere in 1874 and in each month of the year 1874, with the humidity in each of the years, and in each month of the years 1865 to 1874, inclusive, and also with the average humidity for each month during the ten years, 1865-74.

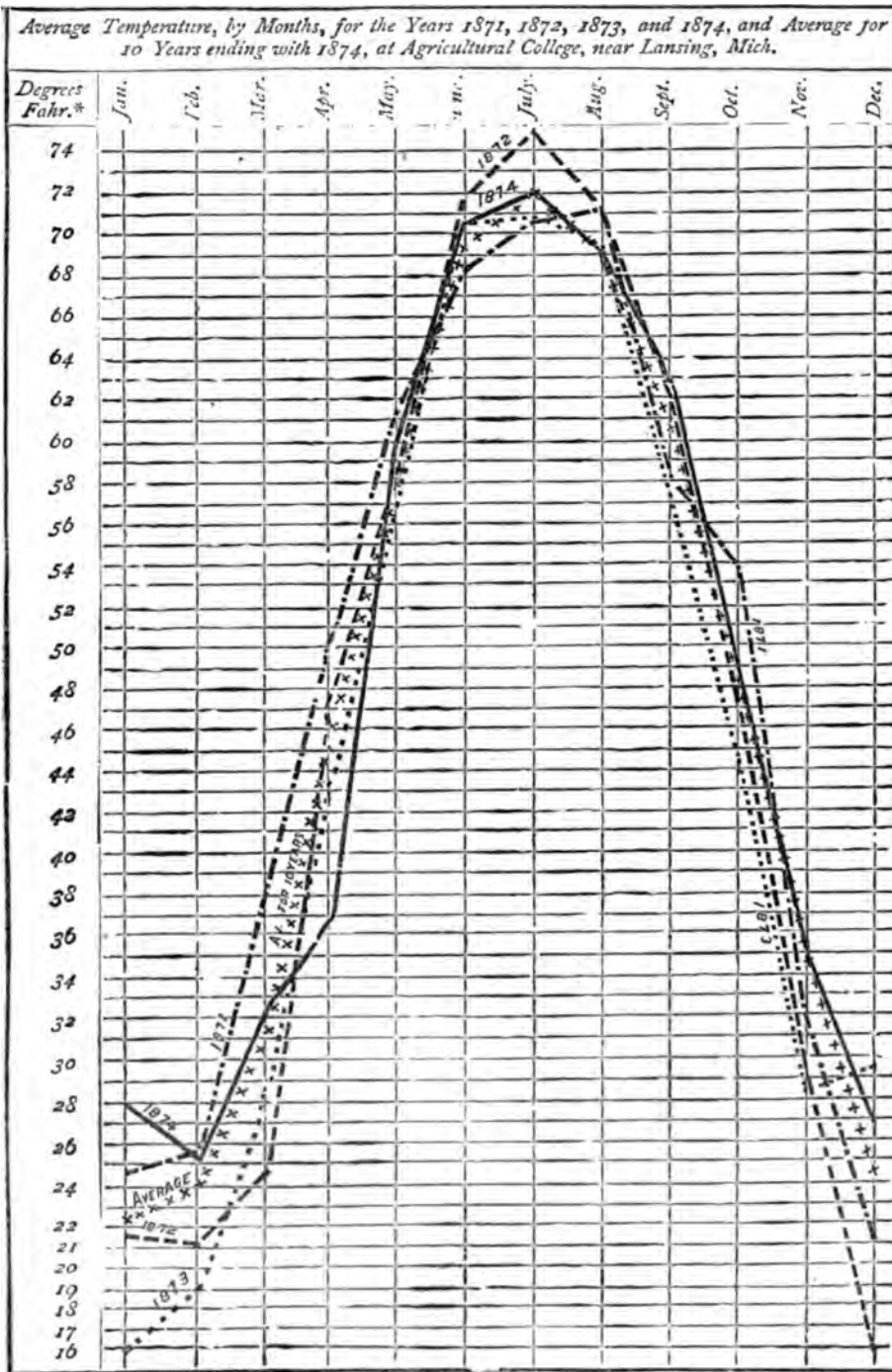
Diagram No. 7, page 269, pictures to the eye the comparative humidity of the atmosphere in each month of the year 1874, and exhibits at a glance the relations of the different years, and of the several months in the years 1871 to 1874, inclusive, as also the relation of each month to the average for that month during the ten years ending with 1874, so far as relates to absolute humidity of the atmosphere. For 1874, the comparative dryness of the air in April, and especially in July and August, is very noticeable.

EXHIBIT 10.—TEMPERATURE.—Average by Years and by Months, for the Years 1865 to 1874, inclusive, at the Agricultural College, near Lansing, Michigan, and near the center of the thickly-settled part of the State. (Results of Observations by Prof. R. C. Kedzie.)

YEARS.	ANNUAL AVERAGE.	AVERAGE TEMPERATURE, STATED IN DEGREES FAHRENHEIT, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865.....	47.70	21.10	27.59	36.96	47.40	57.65	70.76	65.60	65.84	67.06	46.50	38.68	26.72
1866.....	45.60	21.16	22.71	29.60	48.94	55.04	66.60	71.73	62.60	55.90	49.50	37.94	25.53
1867.....	46.96	17.61	30.89	29.72	48.30	51.11	71.61	71.60	69.78	56.60	50.60	40.44	25.81
1868.....	46.35	19.00	18.72	37.80	43.68	59.06	68.46	77.19	70.33	58.77	45.19	36.77	21.16
1869.....	46.27	22.26	26.66	27.00	45.70	56.03	64.45	70.85	70.58	63.45	40.80	32.05	26.16
1870.....	49.11	25.37	24.25	30.28	50.39	64.32	70.87	74.40	70.11	63.66	52.45	38.40	24.80
1871.....	47.93	24.75	25.65	38.18	50.13	61.39	68.21	70.60	71.19	58.10	53.91	31.95	21.12
1872.....	45.54	21.59	21.34	24.75	47.39	58.43	71.82	74.91	71.23	62.03	47.44	29.80	15.74
1873.....	44.54	15.87	19.10	28.90	43.17	56.96	70.60	70.83	69.49	57.38	44.66	28.49	29.54
1874.....	47.32	27.70	25.51	32.80	36.87	59.58	70.61	72.02	69.39	62.85	49.10	35.00	26.96
Av. for 10 years.	46.78	22.25	24.24	31.55	46.19	57.97	69.40	71.92	69.05	60.63	48.02	34.95	24.50

The last five lines in Exhibit 10 are graphically represented in Diagram No. 6, opposite this page.

DIAGRAM No. 6.



*Scale= $9\frac{1}{4}^{\circ}$ to the inch.

Drawn by L. De Lamarier.

Designed by Henry B. Baker.

MICH. ENG. CO.

TABLE XXXI.—TEMPERATURE.—*Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in 24 Hours and in 14 Hours for each Month of the Year 1874, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1874.	TEMPERATURE,—FAHRENHEIT, 1874.																	
	Average of 3 Daily Obser- vations,—7 A. M., 2 P. M., and 9 P. M.	REGISTERING THERMOM- ETER.			AVERAGE RANGE.		GREATEST CHANGE IN 24 HOURS,— 2 P. M. to 2 P. M.		GREATEST CHANGE IN 14 HOURS,— 7 A. M. to 9 P. M.		REGISTERING THERMOM- ETER,—GREAT- EST CHANGE IN 24 HOURS.							
		Highest.	Lowest.	Range.	Daily,—7 A. M. to 9 P. M.	From Day to Day,—2 P. M. to 2 P. M.	Degrees of Rise and Fall.		Day of Month.		Degrees of Rise and Fall.		Day of Month.		Degrees of Change.		Day of Month.	
Year, 1874.....	47.32	101	-7	108	15.65	18.27	R.	40	Oct.	19	R.	40	Oct.	19	46	Sept.	11	
January.....	27.70	59	-7	66	10.58	13.13	R.	28		26	F.	31		4	40		4	
February.....	25.51	48	-1	49	12.32	14.07	R.	28	8 & 11		R.	28	8 & 11		30		8	
March.....	32.30	67	8	59	13.52	16.45	F.	29		18	R.	26		14	37		4	
April.....	36.87	68	3	65	16.53	19.73	R.	33		13	R.	30		13	42		18	
May.....	59.58	96	21	75	17.65	20.84	F. & R.	33	13 & 27		R.	33		27	43		6	
June.....	70.61	95	34	61	15.53	19.07	F.	29		29	R.	26		13	35	19 & 21		
July.....	72.02	98	44	54	17.68	21.35	R. & F.	31	6 & 15		R. & F.	28	4 & 22		43		4	
August.....	69.39	101	41	60	17.23	19.61	R. & F.	27		17	R.	27		17	39		17	
September.....	62.85	95	30	65	23.87	27.57	R.	37		11	R.	37		11	46		11	
October.....	49.10	76	16	60	17.81	19.45	R.	40		19	R.	40		19	41		19	
November.....	35.00	70	3	67	13.10	13.83	R.	31		6	R.	31		6	39		10	
December.....	26.96	50	-6	56	12.00	14.13	R.	29		25	R.	23		2	32	26 & 27		

Tables XXX., XXXI., and XXXII. have for preceding years been printed in the back part of the Report; but as they bear on the mortality from different diseases, it is thought best to have them precede the study of special causes of death, so that references may more easily be made to them.

Table XXX. is identical in plan with the corresponding table for 1873, but Table XXXI. has been somewhat changed from that for 1873. In obtaining the highest, lowest, and range of the thermometer, we used the registering thermometer, which records the actual maximum and minimum for each day in the year, and from these we obtain the range. In preceding Reports, we have used the three daily observations on the thermometer,—at 7 A. M., 2 P. M., and 9 P. M.,—for obtaining the highest, lowest, and range, because the observations on the registering thermometer were not at hand for use.

Besides this change, the last two columns have been added to the table, showing the greatest change in the temperature in 24 hours, as indicated by the registering thermometer.

By this table it appears that the range of temperature at the Agricultural College, near Lansing, Mich., in 1874 was 108 degrees; and that the greatest

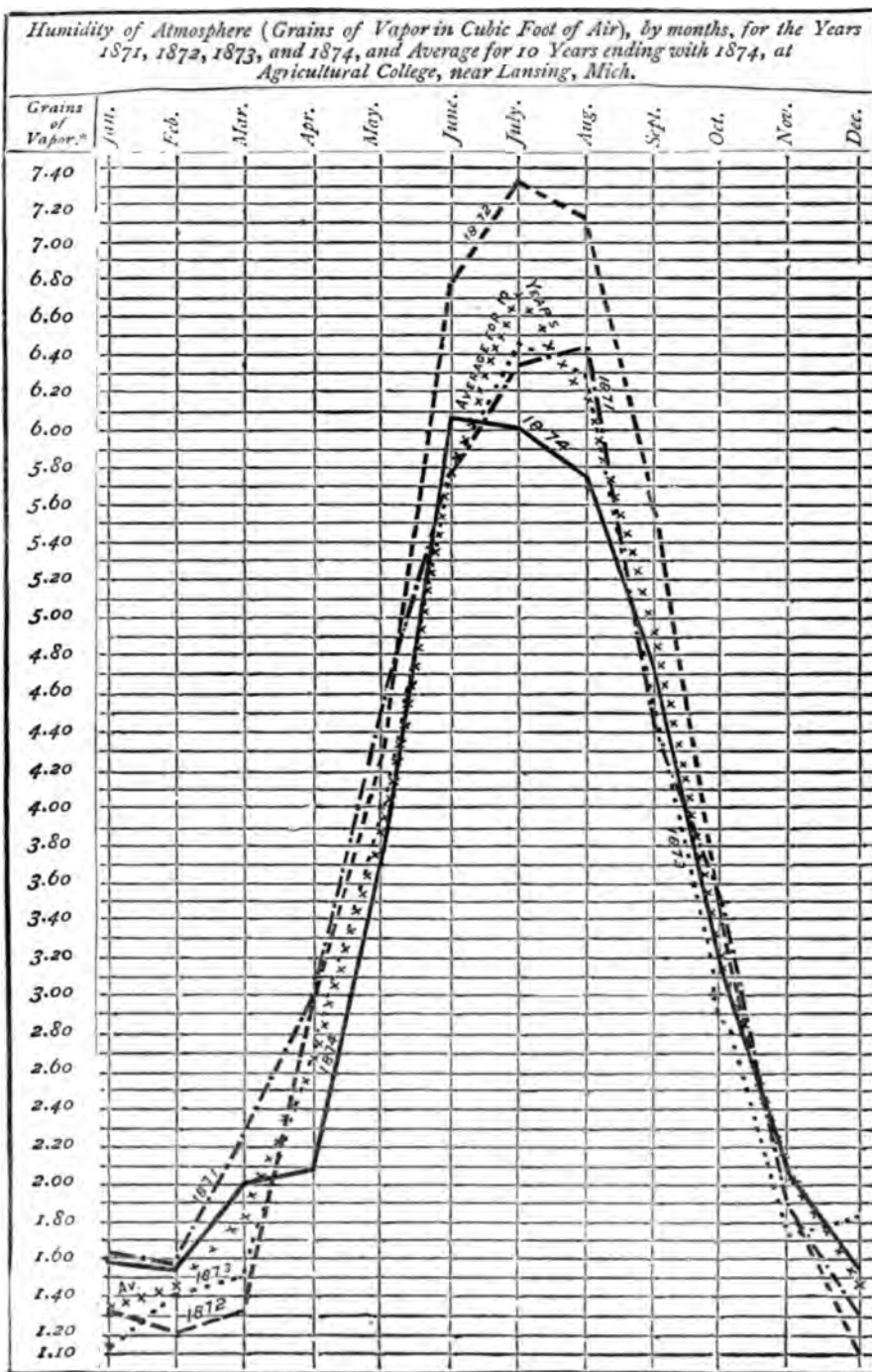
change in any one month occurred in May, when the mercury stood as high as 96, and as low as 21 degrees, making a range of 75 degrees. The greatest change in the temperature of any single day of twenty-four hours occurred on the eleventh day of September, when the thermometer registered as high as 95, and as low as 49 degrees, making a change of 46 degrees.

EXHIBIT 11.—ABSOLUTE HUMIDITY.—Grains of Vapor in Cubic Foot of Air, by Months, for the Years 1865 to 1874, inclusive, at the Agricultural College, near Lansing, Michigan.

YEARS.	ANNU- AL AVER- AGE.	GRAINS OF VAPOR IN CUBIC FOOT OF AIR, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865.....	3.56	1.10	1.39	2.14	2.86	4.20	6.53	5.94	6.02	5.77	3.05	2.27	1.45
1866.....	3.27	1.28	1.35	1.67	2.71	2.96	5.34	6.90	5.18	4.60	3.51	2.22	1.48
1867.....	3.26	1.12	1.80	1.59	2.26	2.68	6.09	6.00	5.73	4.97	3.25	2.25	1.43
1868.....	3.31	1.10	1.13	2.50	2.61	3.78	3.50	8.51	5.99	4.20	2.75	2.28	1.39
1869.....	3.42	1.93	1.78	1.49	2.56	3.65	5.52	6.49	6.56	5.13	2.56	1.99	1.52
1870.....	3.90	1.50	1.35	1.76	3.06	4.92	6.45	7.19	6.54	5.45	3.95	2.22	1.70
1871.....	3.56	1.63	1.58	2.28	3.00	4.53	5.77	6.35	6.43	4.41	3.48	1.99	1.32
1872.....	3.70	1.31	1.23	1.32	2.99	4.29	6.78	7.33	7.17	5.57	3.40	1.89	1.13
1873.....	3.36	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.73	1.82
1874.....	3.36	1.58	1.55	2.00	2.08	3.77	6.07	6.00	5.75	4.72	3.15	2.06	1.55
Av. for 10 years.	3.47	1.37	1.46	1.83	2.68	3.88	5.79	6.72	6.16	4.93	3.20	2.07	1.48

The last five lines in Exhibit 11 are graphically represented in Diagram No. 7, opposite this page.

DIAGRAM No. 7.



• Scale = 1.00 Gr. to the inch. Drawn by L. De Lamarier. Designed by Henry B. Baker.
MICH. ENG. CO.

DIAGRAM No. 8.

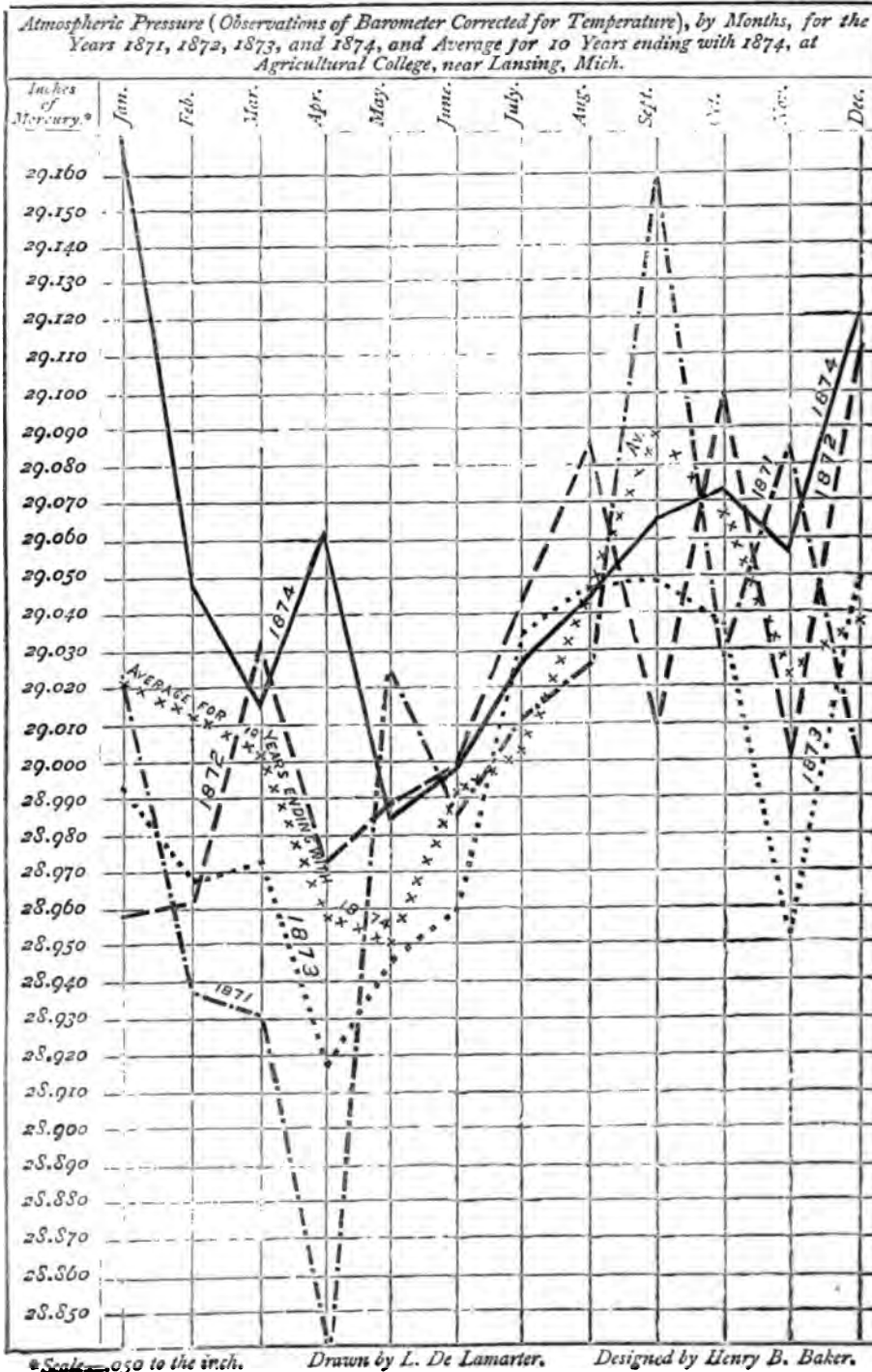


Exhibit 12 shows, by months, the average atmospheric pressure, as indicated by the barometer for each of the years 1865–1874, and the averages for ten years ending with 1874. The atmospheric pressure as shown in this exhibit for each month of each year is twelve hundredths (.12) of an inch higher than is shown in preceding reports for the several years, respectively, because of correction for instrumental error. A new barometer was obtained for observations in 1875 at the Agricultural College, near Lansing, Mich., and it was found that the old barometer indicated twelve-hundredths (.12) of an inch too low; and in making Exhibit 12 and Diagram No. 8, the annual and monthly averages as published in the Reports of the Michigan Board of Agriculture for each year previous to 1875 were increased by twelve hundredths (.12) of an inch, hence the discrepancy shown between Exhibit 12 and Diagram No. 8, and the several exhibits and tables heretofore published, showing the atmospheric pressure.

EXHIBIT 12.—PRESSURE OF THE ATMOSPHERE.—*Observations of Barometer Reduced to Freezing Point, and corrected for instrumental error (+.12) for each of the Years 1865 to 1874, inclusive, and the average for ten Years ending with 1874, at the Agricultural College, near Lansing, Michigan. (Based upon Observations made by Prof. R. C. Kedzie.)*

YEARS.	ANNUAL AVERAGE.	PRESSURE OF THE ATMOSPHERE, STATED IN INCHES OF MERCURIAL COLUMN, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1865..	29.001	29.007	29.069	29.926	29.935	29.927	29.968	29.908	29.073	29.074	29.025	29.067	29.011
1866..	29.033	29.133	29.090	29.079	29.968	29.943	29.903	29.025	29.004	29.076	29.099	29.066	29.013
1867..	29.002	29.977	29.024	29.050	29.873	29.901	29.992	29.035	29.031	29.120	29.030	29.952	29.968
1868..	29.051	29.014	29.134	29.007	29.031	29.942	29.106	29.032	29.063	29.066	29.120	29.029	29.078
1869..	29.007	29.950	29.959	29.054	29.947	29.869	29.976	29.964	29.083	29.140	29.040	29.963	29.119
1870..	29.996	29.967	29.927	29.965	29.023	29.977	29.000	29.956	29.010	29.143	29.059	29.023	29.892
1871..	29.968	29.023	29.936	29.930	29.842	29.024	29.965	29.011	29.027	29.158	29.029	29.084	29.000
1872..	29.007	29.958	29.962	29.031	29.972	29.968	29.999	29.044	29.067	29.010	29.099	29.001	29.112
1873..	29.994	29.993	29.967	29.972	29.918	29.946	29.960	29.034	29.047	29.045	29.037	29.953	29.049
1874..	29.035	29.168	29.048	29.015	29.061	29.964	29.996	29.027	29.044	29.066	29.073	29.067	29.121
Av..*	29.013	29.021	29.019	29.008	29.967	29.950	29.991	29.004	29.047	29.069	29.066	29.022	29.036

* Average for 10 years ending with 1874.

The last five lines in Exhibit 12 are graphically represented in Diagram No. 8, opposite this page. The unusually high barometer in the first four months of 1874 is noticeable, and especially so in January and April, 1874.

TABLE XXX.—*Exhibiting, for the Year, for each Month, and an Average Month, during the Year 1874, the Average Height and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it rained or snowed; and the Depth of Rain and Melted Snow in Inches, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1874.	Barometer, Reduced to 32° Fahr- renheit,—Average. ^a	Range of Barometer. ^b	DAYS OF PREVAILING WINDS.								Relative Humidity, or Per Cent. of Saturation,—Average.	Per Cent. of Cloudiness of Sky, —Average.	Number of Days on which it Rained or Snowed.	Rain and Melted Snow, in Inches.	OZONE,— RELATIVE. MAXIMUM = 10.	
			North.	North-east.	East.	South-east.	South.	South-west.	West.	North-west.					Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.
Year, 1874.....	28.935	2.069	5	37	10	49	6	146	24	79	78	53	99	22.98	4.11	3.99
January.....	29.048	1.159	1	2	....	5	3	8	1	9	88	75	12	3.53	5.10	6.39
February.....	28.928	1.387	2	4	1	7	....	9	1	3	89	70	7	1.55	5.56	6.10
March.....	28.895	1.081	....	2	1	4	1	14	....	9	83	54	8	1.79	5.00	6.00
April.....	28.941	1.082	....	6	....	4	....	10	2	8	75	46	8	1.67	5.70	6.60
May.....	28.864	.785	....	6	1	2	....	13	3	6	62	47	8	1.78	5.90	4.90
June.....	28.878	.696	....	2	....	4	....	12	5	5	75	54	12	5.07	3.50	2.34
July.....	28.907	.465	....	2	1	3	....	13	3	9	71	37	6	2.56	1.80	1.50
August.....	28.924	.503	....	7	5	4	....	9	1	5	74	31	5	1.28	2.80	1.10
September.....	28.946	1.075	....	1	....	2	2	17	....	7	76	36	10	1.27	2.90	1.20
October.....	28.953	.995	2	2	....	4	....	14	1	8	79	58	6	.49	3.32	3.01
November.....	28.937	1.712	....	2	....	6	....	14	3	3	77	63	10	1.61	3.80	4.50
December.....	29.001	1.274	....	1	1	4	....	13	4	7	85	65	7	.38	4.00	4.20
Monthly Average	28.935	1.018	.42	3.08	.83	4.08	.50	12.17	2.00	6.58	78	53	8.25	1.92	4.11	3.99

^a Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 372.)

^b Since the tables including them were made, it has been ascertained that the statements in this Report concerning the range of atmospheric pressure as indicated by the Barometer, at the Agricultural College, are unreliable; and implicit confidence cannot be placed in other statements relative to atmospheric pressure. They were compiled from the printed tables in Report of the Michigan Board of Agriculture, and these tables contain so many manifest errors that no confidence can safely be placed in them. Such undoubted errors as the following are noted in the tables for 1874: On February 16, the Barometer is stated to have shown, at 7 A. M., 28.004 inches; on September 25, at 7 A. M., 28.071 inches; on October 2, at 9 P. M., 28.731; on November 22, at 7 A. M., 27.575; on December 6, at 9 P. M., 18.747, etc., etc.; and various other statements are found which are probably wrong, although less manifestly so. In consequence of such evident errors in the printed tables from which the statements on this point in this report are made, it is unsafe to draw conclusions from them as to the relations of range of atmospheric pressure to deaths from any given disease.

TABLE XXXII.—*Some Meteorological Conditions at certain Localities in Michigan, by Months, during the Year 1874.*

MONTHS, 1874.	DETROIT.				ECONOMY.				GRAND HAVEN.				MARQUETTE.			
	Average Barometer.	Average Temperature, — Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature, — Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature, — Fahr.	Total Rainfall, in Inches.	Prevailing Wind.	Average Barometer.	Average Temperature, — Fahr.	Total Rainfall, in Inches.	Prevailing Wind.
Year, 1874.....	30.013	43.5	24.63	S. W.	29.992	40.5	31.10	S.	30.081	47.6	23.15	S. W.	29.988	41.3	24.94	N. W.
January.....	30.074	23.9	5.16	S. W.	30.064	13.2	0.50	N. W.	30.083	23.4	.....	S.	30.057	23.4	0.98	N. W.
February.....	30.102	27.5	2.00	E.	30.089	17.3	0.54	N. E.	30.105	27.6	.....	S. W.	30.080	22.3	0.38	N. W.
March.....	29.987	34.4	1.55	N. W.	29.991	23.8	0.54	N. W.	30.017	32.2	.....	N. W.	29.980	23.9	0.44	N. W.
April.....	30.029	37.3	1.39	N. E.	30.071	23.1	0.47	N. E.	30.057	34.3	.....	S. W.	30.071	30.3	0.23	N. W.
May.....	29.928	59.0	1.33	N. W.	29.941	45.9	3.95	N. E.	29.983	53.6	2.23	S. W.	29.964	51.3	2.54	N. W.
June.....	29.906	63.9	4.33	S. W.	29.870	60.6	5.63	S.	29.927	63.9	5.70	W.	29.880	53.8	3.22	N. W.
July.....	29.930	71.4	3.65	S. W.	29.896	63.9	3.38	S.	29.941	70.4	4.19	S.	29.898	64.5	2.43	S. W.
August.....	29.982	67.9	2.11	E.	29.995	64.4	3.74	N.	29.989	63.4	1.19	N. E.	29.969	62.9	1.26	S.
September.....	30.003	66.7	0.67	S. W.	29.932	60.1	3.94	S.	29.993	63.9	5.05	S. W.	29.923	60.3	3.39	S.
October.....	30.054	51.3	0.78	S. W.	30.029	45.5	3.27	S.	30.033	51.6	1.43	N. W.	30.094	45.3	6.12	N. W.
November.....	30.078	33.4	2.26	W.	29.968	31.3	4.44	N. W.	30.150	39.3	2.43	W.	29.974	31.0	2.41	W.
December.....	30.085	29.7	0.80	S. W.	30.020	31.2	0.50	S. W.	30.033	30.7	0.38	N. W.	30.008	22.5	0.56	W.
Average Month.....	30.013	43.5	2.23	.....	29.992	40.5	2.39	.....	30.081	47.6	1.10	.....	29.988	41.3	2.06	.....

* Last eight months of 1874.

Table XXXII. is made from data obtained from the "Annual Report of the Chief Signal Officer to the Secretary of War," for the years 1874 and 1875.

DEATHS AND COINCIDENT METEOROLOGICAL CONDITIONS.

EXHIBIT 13.—Deaths returned as having occurred from All Causes in Michigan during each of the Years 1869-1874, Per Cent. of Deaths to the Estimated Population in each Year, and some Meteorological conditions existing at the same time, at the Agricultural College, near Lansing, and near the center of the thickly settled part of the State.

YEARS 1869-1874, IN ORDER BY PER CENT. OF REPORTED DEATHS FROM ALL CAUSES TO ESTIMATED INHABITANTS, YEAR OF GREATEST DEATH- RATE FIRST.	Estimated Inhabitants.	DEATHS REPORTED.		TEMPERATURE.—FARR.; MEAN OF THREE DAILY OBSERVATIONS.—7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.—MONTHLY AVERAGES.				OZONE.—REL- ATIVE.— MAXIMUM=10.		Barometer Reduced to 32° Fahr.—Average.	Rain and Melted Snow, in Inches.	RANGE OF BAROMETER. ^b	
		Number.	Per Cent. of Deaths to Es- timated Inhabitants.	AVERAGE RANGE.		Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Va- por, in Inches.	Weight, in Grains, of Va- por in Cubic Foot of Air. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	Annual.	Average Daily.				
				Daily.	From Day to Day,— 2 P. M. to 2 P. M.											
More than the Av. Death rate.	1,358,848	1 05	14.37	17.67	44.54	80	.297	3.36	4.02	4.63	28.874	21.745	1.307	.141		
{ 1873.....	1,297,973	1 03	15.31	18.14	45.54	83	.328	3.70	2.82	4.24	28.887	26.853	1.902	.123		
Average.....	1,260,186	.92	15.66	18.62	46.74	81	.313	3.56	3.65	4.29	28.801	29.916	2.397	.131		
{ 1870.....	1,184,292	.91	17.11	19.03	49.10	81	.341	3.90	.....	.....	28.876	37.757	1.366	.....	
1874.....	1,422,578	.88	15.05	18.27	47.05	78	.294	3.36	4.10	3.99	28.035	22.959	2.069	.130		
{ 1869.....	1,037,608	.86	15.00	.....	46.27	81	.302	3.49	.....	.....	28.887	33.153	1.600	.....	
1871.....	1,239,825	.78	16.52	19.97	47.93	80	.315	3.56	.....	.....	28.884	27.210	6.679	.....	

^a See footnotes to Exhibit K, page 273.

^b See footnote b, page 274.

^c Exception to the proposition that the temperature was less than the average in years in which the death-rate was greater than the average, and vice versa.

EXHIBIT 14.—Deaths returned as having occurred in Michigan from All Causes, by Months, during the Year 1874, and some Meteorological Conditions existing at the same time, at the Agricultural College, near Lansing, and near the center of the thickly-settled part of the State.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM ALL CAUSES, GREATEST NO. FIRST.	DEATHS REPORTED FROM ALL CAUSES, 1874.										TEMPERATURE.—FAHR.; MEAN OF 3 DAILY OBSER- VATIONS.—7 A.M., 2 P. M., AND 9 P. M.		Rain and Melted Snow, in Inches.	Humidity of At- mosphere, etc.,— MONTHLY AV- ERAGES.	OZONE.— RELATIVE MAXIMUM = 10.		Barometer—Average, Reduced to 32° Fah.	* RANGE OF BAROMETER.			
	NUMBER.				PER CENT. OF TOTAL.				AVERAGE RANGE.		Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.			Day, 7 A. M. to 2 P. M.	Night, 9 P. M. to 7 A. M.					
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Daily.	From Day to Day, 2 P. M. to 2 P. M.									Temperature.		
Year, 1874..... ^a	12,454	6,637	5,786	31	100.00	100.00	100.00	100.00	100.00	15.65°	18.27°	47.05°	22.550	78	.294	3.36	4.10	3.99	28.935	2.029	.139
Sept.....	1,517	802	711	4	12.18	12.06	12.29	12.00	12.00	23.87°	27.57°	62.85°	1.296	76	.422	4.72	2.90	1.20	28.946	1.075	.079
Aug.....	1,388	736	651	1	11.15	11.09	11.25	3.23	3.23	17.23	19.61	69.39	1.378	74	.527	5.75	2.80	1.10	28.924	.503	.063
Oct.....	1,211	640	567	4	9.72	9.64	9.80	12.90	17.81	19.45	49.10	494	79	.282	3.15	3.32	3.01	28.953	.905	.141	
Dec.....	1,120	606	510	4	8.99	9.13	8.81	12.90	12.90	14.13	26.96	85	135	.135	1.55	4.00	4.20	29.001	1.274	.199	
April.....	1,102	606	496	—	8.85	9.13	8.57	—	—	16.53	19.73	36.87	168	75	.169	2.08	5.70	6.00	28.941	1.082	.155
May.....	1,071	551	518	2	8.60	8.30	8.95	6.45	6.45	17.65	20.84	59.58	175	62	.823	3.77	5.80	7.40	28.864	.785	.114
Average.....	1,038	553	482	3	8.33	8.33	8.33	9.68	9.68	13.65	18.27	47.05	1.913	78	.294	3.36	4.10	3.99	28.935	1.018	.139
Nov.....	968	517	448	3	7.77	7.79	7.74	9.68	9.68	13.10	13.83	35.00	1.612	77	.145	2.06	3.80	4.50	28.937	1.712	.175
July.....	965	524	435	6	7.75	7.90	7.52	19.35	17.68	21.35	21.35	72.02	2.660	71	.539	6.00	1.80	1.50	28.907	.465	.073
March.....	919	500	416	3	7.38	7.53	7.19	9.68	13.52	16.45	32.30	32.30	1.786	83	.161	2.00	5.00	6.00	28.895	1.081	.133
June.....	896	471	395	—	6.95	7.10	6.83	—	15.53	19.07	47.01	70.61	1.507	75	.539	6.07	3.50	2.34	28.878	.086	.084
Feb.....	672	349	319	4	5.40	5.26	5.51	12.90	12.32	14.07	25.51	25.51	1.550	89	.128	1.53	5.53	6.10	28.928	1.387	.171
Jan.....	655	335	320	—	5.26	5.05	5.53	—	10.58	13.13	27.70	3.228	88	.135	1.53	5.10	6.89	29.048	1.159	.169	

* See foot-note b, page 274.

^a See foot-note to Exhibit K, page 272.
^b Excluding Deaths in Unknown Month.
^c Exceptions to the proposition that the Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
^d Exceptions to the proposition that the Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
^e Exceptions to the proposition that the Rain-fall was less than the average in months when more than the average number of deaths occurred, and vice versa.
^f Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.
^g Exceptions to the proposition that the Atmospheric Pressure, as indicated by the Barometer, was greater than the average in months when more than the average number of deaths occurred, and vice versa.

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,—only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

Croup.—The number of deaths returned as having been caused by Croup in 1874 is 142, which is 1.14 per cent. of the deaths from all causes. The excess is of the males for each of the years 1870–1874. Nearly thirty per cent. of all the deaths returned from Croup in Michigan in 1874 were reported to have occurred in the two months of November and December. The smallest proportion occurred in June. As is the case in each year, a very large proportion of the decedents from Croup are under the age of five years, 84.51 per cent. of the deaths from this disease in 1874 being of persons under five years of age.

In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that *more* than an average number of deaths from Croup occurred in months when the temperature was *lower* than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was *less* than an average quantity of vapor inhaled, there was only one exception in 1874, that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—CROUP.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.	DEATHS FROM CROUP IN 1874.		Temperature,—Fahr.; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.				HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.							OZONE,— RELATIVE. MAXIMUM== 10.		Barometer Reduced to 32° Fahr.,—Average.*
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^b	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^c	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			
			Daily.	From Day to Day,—2 P. M. to 2 P. M.												
Year, 1874....	4142	100.00	15.63	18.27	47.05	22.959	78	.294	3.36	2.10	9.58	4.10	3.99	28.935		
More than the Average Number of Deaths.	Nov.	21	14.79	13.10	13.83	35.00	1.612	77	.145	2.06	1.29	10.39	3.80	4.50	28.937	
	Dec.	21	14.79	12.00	14.13	26.96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001	
	Feb.	15	10.56	12.32	14.07	25.51	1.550	89	.128	1.55	.97	10.71	5.53	6.10	28.928	
	Jan.	14	9.86	10.58	13.13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6.39	29.048	
	Oct.	14	9.86	17.81	19.45	49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28.953	
March....	13	9.15	13.52	16.45	32.30	1.786	83	.161	2.00	1.25	10.43	5.00	6.00	28.895		
Average.....	12	8.33	15.63	18.27	47.05	1.913	78	.294	3.36	2.10	9.58	4.10	3.99	28.935		
Less than the Average Number of Deaths.	Sept.	10	7.04	23.87	27.57	62.85	1.266	76	.422	4.72	2.95	8.73	2.90	1.20	28.946	
	April	9	6.34	16.53	19.73	36.87	1.688	75	.169	2.08	1.30	10.38	5.70	6.60	28.941	
	May	8	5.63	17.65	20.84	59.58	1.775	62	.323	3.77	2.36	9.32	5.80	4.90	28.864	
	July	7	4.93	17.68	21.35	72.02	2.560	71	.539	6.00	3.75	7.93	1.80	1.50	28.907	
	August ..	7	4.93	17.23	19.61	69.39	1.278	74	.527	5.75	3.59	8.09	2.80	1.10	28.924	
	June	3	2.11	15.53	19.07	70.61	5.067	75	.559	6.07	3.79	7.89	3.50	2.34	28.878	

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

^b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

^c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 13.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

^d Includes 10 Membranous Croup, and 2 Spasmodic Croup.

^e Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.

^f Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

The range of the thermometer during the year 1874 was 108 degrees.

NOTE.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,—only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

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In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that *more* than an average number of deaths from Croup occurred in months when the temperature was *lower* than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was *less* than an average quantity of vapor inhaled, there was only one exception in 1874, that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—CROUP.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.	DEATHS FROM CROUP IN 1874.		Temperature,—Fahr.; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.							OZONE,— RELATIVE. MAXIMUM= 10.		Barometer Reduced to 32° Fahr.,—Average.*
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^b	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^c	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
			Daily.	From Day to Day,—2 P. M. to 2 P. M.											
Year, 1874.....	4142	100.00	15.63	18.27	47.05	22.939	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
More than the Average Number of Deaths.	Nov.	21	14.79	13.10	13.83	35.00	1.612	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	Dec.	21	14.79	12.00	14.13	26.96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001
	Feb.	15	10.56	12.32	14.07	25.51	1.550	89	.128	1.55	.97	10.71	5.53	6.10	28.928
	Jan.	14	9.86	10.58	13.13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6.39	29.048
	Oct.	14	9.86	17.81	19.45	49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28.953
	March....	13	9.15	13.52	16.45	32.30	1.786	83	.161	2.00	1.25	10.43	5.00	6.00	28.895
Average.....	12	8.33	15.63	18.27	47.05	1.913	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
Less than the Average Number of Deaths.	Sept.	10	7.04	23.87	27.57	62.85	1.266	76	.422	4.72	2.95	8.73	2.90	1.20	28.946
	April....	9	6.34	16.53	19.73	36.87	1.668	75	.169	2.08	1.30	10.38	5.70	6.60	28.941
	May	8	5.63	17.65	20.84	50.58	1.775	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	July	7	4.93	17.68	21.35	72.02	2.560	71	.539	6.00	3.75	7.93	1.80	1.50	28.907
	August..	7	4.93	17.23	19.61	69.39	1.278	74	.527	5.75	3.59	8.69	2.80	1.10	28.924
	June	3	2.11	15.53	19.07	70.61	5.067	73	.559	6.07	3.79	7.89	3.50	2.34	28.878

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 373.)

^a Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

^b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

^c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 13.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

^d Includes 10 Membranous Croup, and 2 Spasmodic Croup.

^e Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.

^f Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

The range of the thermometer during the year 1874 was 108 degrees.

NOTE.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,—only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

Croup.—The number of deaths returned as having been caused by Croup in 1874 is 142, which is 1.14 per cent. of the deaths from all causes. The excess is of the males for each of the years 1870–1874. Nearly thirty per cent. of all the deaths returned from Croup in Michigan in 1874 were reported to have occurred in the two months of November and December. The smallest proportion occurred in June. As is the case in each year, a very large proportion of the decedents from Croup are under the age of five years, 84.51 per cent. of the deaths from this disease in 1874 being of persons under five years of age.

In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that *more* than an average number of deaths from Croup occurred in months when the temperature was *lower* than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was *less* than an average quantity of vapor inhaled, there was only one exception in 1874, that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—CROUP.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.		DEATHS FROM CROUP IN 1874.		Temperature,—Fahr.; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.						OZONE,— RELATIVE. MAXIMUM= 10.		Barometer Reduced to 32° Fahr.,—Average.*
		Number.	Per Cent. of Total.	Average Range.		Rain-fall, in Inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^b	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^c	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
				Daily.	From Day to Day,—2 P. M. to 2 P. M.									Temperature.	
Year, 1874.....		4142	100.00	15.65	18.27	47.05	22.959	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
More than the Average Number of Deaths.	Nov.	21	14.79	13.10	13.83	35.00	1.612	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	Dec.	21	14.79	12.00	14.13	26.96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001
	Feb.	15	10.56	12.32	14.07	25.51	1.550	89	.128	1.55	.97	10.71	5.53	6.10	28.928
	Jan.	14	9.86	10.58	13.13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6.39	29.048
	Oct.	14	9.86	17.81	19.45	49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28.953
	March....	13	9.15	13.52	16.45	32.30	1.786	83	.161	2.00	1.25	10.43	5.00	6.00	28.895
Average.....		12	8.33	15.65	18.27	47.05	1.913	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
Less than the Average Number of Deaths.	Sept.	10	7.04	23.87	27.57	62.85	1.266	76	.422	4.72	2.95	8.73	2.90	1.20	28.946
	April	9	6.34	16.53	19.73	36.87	1.668	75	.169	2.08	1.30	10.38	5.70	6.60	28.941
	May	8	5.63	17.65	20.84	50.58	1.775	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	July	7	4.93	17.68	21.35	72.02	2.560	71	.539	6.00	3.75	7.93	1.80	1.50	28.907
	August..	7	4.93	17.23	19.61	69.39	1.278	74	.527	5.75	3.59	8.09	2.80	1.10	28.924
	June	3	2.11	15.53	19.07	70.61	5.067	75	.559	6.07	3.79	7.80	3.50	2.34	28.878

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)

^b Calculated for 18 respirations per minute, of 20 cubic inches of air each.

^c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

^d Includes 10 Membranous Croup, and 2 Spasmodic Croup.

^e Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.

^f Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

The range of the thermometer during the year 1874 was 108 degrees.

NOTE.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

In preceding Reports, and in this one, deaths from certain diseases are studied in their relations to the coincident conditions of the atmosphere, and it has been found that many of the diseases have important relations which it is quite probable may, in some diseases, be found to be causative. The relations of temperature, humidity, etc., to some of the leading diseases are so nearly opposite those to certain other diseases, that any study of the relations of deaths from all causes to climatic conditions in the State in different years, or even in different months of the same year, shows very little apparent influence,—only so much as the difference, if any there be, between the favorable and the unfavorable influences of the excessive heat, cold, or other condition upon the different diseases. To illustrate, it may be mentioned that though a very warm year or month may be the occasion of great mortality from diarrhea and from other of the warm-weather diseases, the deaths from pneumonia, bronchitis, and other of the cold-weather diseases may be so few as that the death-rate as a whole is not very remarkable. The study of the subject of deaths from all causes by years, however, though difficult, is one of considerable interest. Even when confined to a single State it may yield valuable evidence as to the most favorable and unfavorable elements of the climate of the State; and combined with similar evidence from States having different climates, it should teach us which, on the whole, is the one most favorable to human life. Because of the many difficulties of the subject, it has not heretofore been undertaken, but a beginning is now made in this Report, Exhibits 13 and 14, pages 276 and 277, being new ones and on that subject.

Croup.—The number of deaths returned as having been caused by Croup in 1874 is 142, which is 1.14 per cent. of the deaths from all causes. The excess is of the males for each of the years 1870–1874. Nearly thirty per cent. of all the deaths returned from Croup in Michigan in 1874 were reported to have occurred in the two months of November and December. The smallest proportion occurred in June. As is the case in each year, a very large proportion of the decedents from Croup are under the age of five years, 84.51 per cent. of the deaths from this disease in 1874 being of persons under five years of age.

In 1873, the per cent. of deaths from Croup to deaths from all causes was 1.21, and in 1874 it was 1.14,—a decrease of .07 per cent. Croup prevails most extensively in the winter months; an examination of Exhibit 12 shows that the temperature of the winter months of 1874 was considerably higher than the average of those months for ten years ending with 1874, which indicates that a higher than average temperature in the cold season decreases the proportion of deaths from Croup. Then, an examination of Exhibit 13 shows that the absolute humidity of the winter months of 1874 was greater than the average of those months for ten years ending with 1874, which indicates that a greater than average humidity tends to decrease the proportion of deaths from Croup. Exhibit K, following, contains evidence which corroborates the above statements that Croup is most fatal in a cold, dry atmosphere. There are only two exceptions to the proposition that *more* than an average number of deaths from Croup occurred in months when the temperature was *lower* than the average, those exceptions being in the months of April and October, as they were in 1873; and to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was *less* than an average quantity of vapor inhaled, there was only one exception in 1874, that exception being in April, as it was in 1873. To the first proposition the exceptional months in 1873 were April, September, and October, and to the second proposition the exceptional months in 1873 were April and September.

EXHIBIT K.—CROUP.—Deaths returned as having occurred in Michigan from Croup, by Months during the Year 1874, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP, GREATEST FIRST.	DEATHS FROM CROUP IN 1874.		Temperature,—Fahr.; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.							OZONE,— RELATIVE, MAXIMUM= 10.		Barometer Reduced to 32° Fahr.,—Average.*
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Rain-fall, in Inches.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^b	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^c	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
			Daily.	From Day to Day,—2 P. M. to 2 P. M.											
Year, 1874....	4142	100.00	15.65	18.27	47.05	22.959	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
More than the Average Number of Deaths.	Nov.	21	14.79	13.10	13.83	35.00	1.612	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	Dec.	21	14.79	12.00	14.13	26.96	.375	85	.135	1.55	.97	10.71	4.00	4.20	29.001
	Feb.	15	10.56	12.32	14.07	25.51	1.550	89	.128	1.55	.97	10.71	5.53	6.10	28.928
	Jan.	14	9.86	10.58	13.13	27.70	3.528	88	.135	1.58	.99	10.69	5.10	6.39	29.018
	Oct.	14	9.86	17.81	19.45	49.10	.494	79	.282	3.15	1.97	9.71	3.32	3.01	28.953
March....	13	9.15	13.52	16.45	32.30	1.786	83	.161	2.00	1.25	10.43	5.00	6.00	28.895	
Average.....	12	8.33	15.65	18.27	47.05	1.913	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
Less than the Average Number of Deaths.	Sept.	10	7.04	23.87	27.57	62.85	1.266	76	.422	4.72	2.95	8.73	2.90	1.20	28.946
	April ...	9	6.34	16.53	19.73	36.87	1.668	75	.169	2.08	1.30	10.38	5.70	6.60	28.941
	May	8	5.63	17.65	20.84	59.58	1.775	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	July	7	4.93	17.68	21.35	72.02	2.560	71	.539	6.00	3.75	7.93	1.80	1.50	28.907
	August..	7	4.93	17.23	19.61	69.39	1.278	74	.527	5.75	3.59	8.09	2.80	1.10	28.924
	June	3	2.11	15.53	19.07	70.61	5.067	75	.559	6.07	3.79	7.89	3.50	2.34	28.878

- * Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)
 * Approximate,—calculated from Temperature and Force of Vapor combined. (Temperature of Wet Bulb Thermometer not stated.)
 * Calculated for 18 respirations per minute, of 30 cubic inches of air each.
 * Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 30 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.
 * Includes 10 Membranous Croup, and 2 Spasmodic Croup.
 * Exceptions to proposition that more than an average number of deaths from Croup occurred in months when the temperature was less than the average, and vice versa.
 * Exceptions to the proposition that more than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa. It should be borne in mind that probably a less proportion of the deaths were returned for months in early part of the year.

The range of the thermometer during the year 1874 was 108 degrees.

NOTE.—The meteorological data for Exhibits K, L, M, O, P, U, V, W, X, Y, 12, 13, and 14, and Table XXX. were obtained from the Report of the State Board of Agriculture for the respective years, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing,

Michigan. The calculations of Range of Temperature and Weights of Vapor have been made in this State Department.

Croup and Diphtheria.—In combining the deaths from Croup and Diphtheria in one exhibit, as is done in Exhibit L, the meteorological conditions do not appear to be so closely related to the deaths as is shown in the exhibit of Croup and meteorological conditions. If we make the same propositions concerning Croup and Diphtheria combined as we did for Croup alone, in Exhibit K, we find that to the first proposition in Exhibit L there are five exceptions for Croup and Diphtheria, against two for Croup, and to the second proposition concerning Croup and Diphtheria, there are four exceptional months, against only one for Croup alone.

EXHIBIT L.—CROUP AND DIPHTHERIA.—*Deaths in Michigan from Croup and Diphtheria, by Months, during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279–280.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CROUP AND DIPHTHERIA, GREATEST FIRST.		DEATHS FROM CROUP AND DIPHTHERIA, 1874.		Temperature, — Fahr.; Mean of three Daily Observations, —7 A.M., 2 P. M., and 9 P. M.					HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.					OZONE,—REL- ATIVE. MAXIMUM =10.		Barometer Reduced to 32° Fahrenheit, Average.*
		Number.	Per Cent. of Total.	AVERAGE RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours, in excess of vapor inhaled. ^a	Day, —7 A. M. to 2 P. M.	Night, —9 P. M. to 7 A. M.			
				Daily.	From Day to Day,— 2 P. M. to 2 P. M.											
Year, 1874.....	355	100.00	15.65°	18.27°	47.05°	78	.294	3.36	2.10	9.58	4.10	3.99	28.935			
More than the Average No. of Deaths.	Dec....	54	15.21	12.00	14.13	26.96	85	.135	1.55	.97	10.71	4.00	4.20	29.001		
	Sept....	47	13.24	23.87	27.57	b 62.85	76	.422	4.72	c 2.95	8.73	2.90	1.20	28.946		
	Nov....	47	13.24	13.10	13.83	35.00	77	.145	2.06	1.29	10.39	3.80	4.50	28.937		
	Oct....	37	10.42	17.81	19.45	b 49.10	79	.282	3.15	1.97	9.71	3.32	3.01	28.953		
	Jan....	30	8.45	10.58	13.13	27.70	88	.135	1.58	.99	10.69	5.10	6.39	29.043		
Average.....	29.6	8.33	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935			
Less than the Average No. of Deaths.	Feb....	26	7.32	12.32	14.07	b 25.51	89	.128	1.55	c .97	10.71	5.53	6.10	28.923		
	Aug....	24	6.76	17.23	19.61	69.39	74	.527	5.75	3.59	8.09	2.80	1.10	28.924		
	March..	24	6.76	13.52	16.45	b 32.30	83	.161	2.00	c 1.25	10.43	5.00	6.00	28.895		
	April..	20	5.63	16.53	19.73	b 36.87	75	.169	2.08	e 1.30	10.38	5.70	6.60	28.941		
	May....	19	5.35	17.65	20.84	59.58	62	.323	3.77	2.36	9.32	5.80	4.90	28.864		
	July....	16	4.51	17.68	21.35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28.907		
	June....	11	3.10	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3.50	2.34	28.873		

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a See foot-note to exhibit K, page 279.

^b Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which the mean temperature was less than the average, and vice versa.

^c Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

Diphtheria.—For the year 1874 there were 213 deaths returned as having been caused by Diphtheria, which is 1.70 per cent. of the deaths from all causes. The per cent. of deaths from Diphtheria to deaths from all causes has increased each year since 1870, the per cent. for each year being: 1870, 1.12 per cent.; 1871, 1.24; 1872, 1.44; 1873, 1.52; 1874, 1.70. In 1874, the largest proportion of deaths from this disease occurred in September; and in only the last four months of the year was there as much as the monthly average proportion. Over eighty-five per cent. of the deaths from Diphtheria in 1874 were of persons under 10 years of age.

EXHIBIT M.—DIPHTHERIA.—*Deaths from Diphtheria returned as having in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279–280.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM DIPHTHERIA, GREATEST NUMBER FIRST.		DEATHS FROM DIPH- THERIA, 1874.		Temperature, — Fahr. ; Mean of three Daily Observations, —7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.					OZONE, — RELATIVE, MAXIMUM = 10.		Barometer Reduced to 32° Fahrenheit, —Average.*
		Number.	Per Cent. of Total.	Average Range.		Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
				Dally.	From Day to Day,— 2 P. M. to 2 P. M.								Temperature.	
Year, 1874.....		213	100.00	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
More than the Average No. of Deaths.	September	37	17.37	23.87	27.57	b 62.85	76	.422	4.72	c 2.95	8.73	2.90	1.20	28.946
	December.	33	15.49	12.00	14.13	26.96	85	.135	1.55	.97	10.71	4.00	4.20	29.001
	November	26	12.21	13.10	13.83	35.00	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	October...	23	10.80	17.81	19.45	b 49.10	79	.282	3.15	1.97	9.71	3.32	3.01	28.953
Average.....		18	8.33	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
Less than the Average No. of Deaths.	August....	17	7.98	17.23	19.61	69.39	74	.527	5.75	3.59	8.09	2.80	1.10	28.924
	January ..	16	7.51	10.58	13.13	b 27.70	88	.135	1.58	c .99	10.69	5.10	6.39	29.048
	February..	11	5.17	12.32	14.07	b 25.51	89	.128	1.55	c .97	10.71	5.53	6.10	28.828
	March.....	11	5.16	13.52	16.45	b 32.30	83	.161	2.00	c 1.25	10.43	5.00	6.00	28.895
	April.....	11	5.16	16.53	19.73	b 36.87	75	.169	2.08	c 1.30	10.38	5.70	6.60	28.941
	May.....	11	5.16	17.65	20.84	59.58	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	July.....	9	4.23	17.68	21.35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28.907
	June.....	8	3.76	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3.50	2.34	28.878

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a See foot-note to Exhibit K, page 279.

^b Exceptions to proposition that more than an average number of deaths occurred in months in which the temperature was less than the average, and vice versa.

^c Exceptions to proposition that more than an average number of deaths occurred in months in which less than an average quantity of vapor was inhaled, and vice versa.

Exhibit M states the number of deaths from Diphtheria in 1874, by months, and some coincident meteorological conditions. The proposition that more than an average number of deaths from Diphtheria occurred in months in

which the temperature was *less* than the average, and *vice versa*, holds in only six of the twelve months; and the proposition that *more* than an average proportion of deaths occurred in months in which *less* than an average quantity of vapor was inhaled, and *vice versa*, holds in only seven of the twelve months. By exhibit M, there seems to be a closer relation between Diphtheria and the day ozone than any other atmospheric condition, that relation being that Diphtheria prevails when there is *less* than the average ozone, and *vice versa*, only three of the twelve months being exceptional to this proposition. This relation, however, is quite likely to prove exceptional. The increase of deaths from this disease in September and throughout the last part of the year is so great as to indicate that the method of study employed in these exhibits is not so applicable to this disease as to some others, and to suggest the controlling influence of some method of spreading the disease not directly connected with meteorological conditions. It may be that the general opening of schools throughout the State about the first week in September was the cause of the remarkable increase of deaths from Diphtheria in that month and in succeeding months.

Cerebro-Spinal Meningitis.—The number of deaths returned as having been caused by this disease in 1874 was 33; in 1873, 145; in 1872, 79; in 1871, 7; in 1870, 1. One-third of the number of decedents from this disease in 1874 died in February and March.

EXHIBIT V.—CEREBRO-SPINAL MENINGITIS, ETC.—*The Total Number of Deaths returned as having occurred from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, in Michigan, during the Year 1874, by Months and by Sex.*

CAUSES OF DEATH.	SEX.	YEAR, 1874.	MONTHS, 1874.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Total	Total..	183	7	12	22	25	16	11	15	18	23	14	7	14
	Males..	93	1	11	15	14	8	4	5	8	14	4	1	8
	Fema's	90	6	1	7	11	8	7	10	10	8	10	6	6
Cerebro-spinal Meningitis	Total..	33	1	4	7	2	2	2	2	2	3	2	2	4
	Males..	14	-----	3	4	-----	1	1	1	-----	2	1	-----	1
	Fema's	19	1	1	3	2	1	1	1	2	1	1	2	3
Spotted Fever....	Total..	6	-----	1	-----	1	1	-----	-----	1	-----	-----	-----	2
	Males..	5	-----	1	-----	1	1	-----	-----	-----	-----	-----	-----	2
	Fema's	1	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----
Spinal Meningitis	Total..	50	2	4	2	6	7	5	9	5	3	5	-----	2
	Males..	28	-----	4	1	3	3	2	4	4	3	2	-----	2
	Fema's	22	2	-----	1	3	4	3	5	1	-----	3	-----	-----
Meningitis	Total..	5	-----	-----	1	-----	1	-----	-----	-----	2	1	-----	-----
	Males..	3	-----	-----	1	-----	1	-----	-----	-----	1	-----	-----	-----
	Fema's	2	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----
Spinal Fever.....	Total..	89	4	3	12	16	5	4	4	10	14	6	5	6
	Males..	43	1	3	9	10	2	1	-----	4	8	1	1	3
	Fema's	46	3	-----	3	6	3	3	4	6	6	5	4	3

EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths returned as having occurred in Michigan from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1874, and some Meteorological conditions existing at the same time. (See Note on pages 279-280.)

MONTHS IN ORDER BY NUM- BER OF DEATHS FROM CER- EBRO-SPINAL MENINGITIS, SPOTTED FEVER, SPINAL MENINGITIS, MENINGITIS, AND SPINAL FEVER, GREAT- EST NUMBER FIRST.	Deaths from Cere- bro-spinal Meningitis, etc., 1874.		TEMPERATURE,—FAHR.; MEAN OF 3 DAILY OBS- ERVATIONS,—AT 7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF AT- MOSPHERE, ETC.,— MONTHLY AV- ERAGES.			OZONE,— RELATIVE. MAXIMUM = 10.		Barometer Reduced to 32° Fahren- heit,—Average.*	Rain and Melted Snow, in Inches.	RANGE OF BAROME- TER.†	
	Number.	Per Cent. of Total.	Average Range.			Relative Humidity, or Per Ck. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.‡	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
			Daily.	From Day to Day, —2 P. M. to 2 P. M.	Temperature.									
Year, 1874...	183	100.00	15.65°	18.27°	47.05°	78	.294	3.36	4.10	3.99	29.935	22.959	2.069	.130
More than the Av. No. of Deaths.	April...	25	13.66	16.53°	19.73°	75	*.169	† 2.08	‡ 5.70	§ 6.60	h 28.941	1.668	1.082	.155
	March...	22	12.02	b 13.52	c 16.45	d 83	*.161	† 2.00	‡ 5.00	§ 6.00	h 28.895	1.786	1.081	.133
	Sept. ...	22	12.02	23.87	27.57	76	.422	4.72	2.90	1.20	h 28.946	1.296	1.075	.079
	Aug....	18	9.84	17.23	19.61	74	.527	5.75	2.80	1.10	h 28.924	1.278	.503	.065
	May...	16	8.74	17.65	20.84	62	.323	3.77	§ 5.80	‡ 4.90	h 28.864	1.775	.785	.114
Average.....	15.3	8.33	15.65	18.27	47.05	78	.294	3.36	4.10	3.99	29.935	1.913	1.018	.130
Less than the average Num- ber of Deaths.	July...	15	8.20	b 17.68	c 21.35	d 71	*.539	† 6.00	‡ 1.80	§ 1.50	h 28.907	2.560	.465	.078
	Oct.....	14	7.65	b 17.81	c 19.45	79	.282	3.15	‡ 3.32	§ 3.01	h 28.953	.494	.995	.141
	Dec....	14	7.65	12.00	14.13	85	.135	1.55	‡ 4.00	§ 4.20	h 29.001	.375	1.274	.199
	Feb....	12	6.56	12.32	14.07	89	.128	1.55	5.53	6.10	h 28.928	1.550	1.387	.171
	June...	11	6.01	15.53	c 19.07	d 75	*.559	† 6.07	‡ 3.50	§ 2.34	h 28.878	5.067	.696	.084
	Jan....	7	3.83	10.58	13.13	88	.135	1.58	5.10	6.39	h 29.048	3.528	1.159	.169
	Nov....	7	3.83	13.10	13.83	d 77	.145	2.06	‡ 3.80	§ 4.50	h 28.937	1.612	1.712	.175

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

† See foot note b, page 274.

‡ See foot-note to Exhibit K, page 279.

b Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Range of temperature "from day to day" was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Relative Humidity was less than the average in months in which more than the average number of deaths occurred, and vice versa.

e Exceptions to the proposition that the Force of Vapor was greater than the average in months in which more than the average number of deaths occurred, and vice versa.

f Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

g Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

h Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was less than the average in months in which more than the average number of deaths occurred, and vice versa.

i Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths occurred, and vice versa.

Exhibits V. and 15 combine, by months, certain diseases, the same as were combined in the corresponding exhibits for 1873. Exhibit 15 enables one to study the influence of meteorological conditions upon the deaths from this group of diseases.

EXHIBIT U.—CONGESTIVE CHILLS.—Deaths returned as having occurred in Michigan from Congestive Chills, by Months, during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONGESTIVE CHILLS, GREAT EST NUMBER FIRST.	DEATHS FROM CONGESTIVE CHILLS, 1874.			TEMPERATURE.—FAH.; MEAN OF 3 DAILY OBSERVATIONS.—AT 7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.—MONTHLY AVERAGES.					OZONE.—RELATIVE MAXIMUM=10.		Barometer Reduced to 32° Fahrenheit.—Average.*	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average Daily.	RANGE OF BAROMETER.
	Number.	Per Cent. of Total.	AVERAGE RANGE.		Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy ounces, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Troy ounces, of Vapor Exhaled from Air Passages in 24 hours. ^a	Excess of Vapor Inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.						
			Daily.	From Day to Day,— 2 P. M. to 2 P. M.														
Year, 1874.....	78	100.00	15.65	18.27	78	.294	3.36	2.10	9.53		4.10	3.99	28.935	22.959	2.063	.130		
More than the Av. No. of Deaths.	14	17.95	17.68	21.35	71	.539	6.00	3.75	7.93		1.80	1.50	28.907	2.560	h. 4.05	1.078		
July.....	13	16.67	23.87	27.57	76	.422	4.72	2.95	8.73		2.90	1.20	28.946	1.266	1.075	1.079		
September.....	9	11.54	17.23	19.61	69.39	74	.527	5.75	8.00		2.80	1.10	28.924	1.278	h. 5.03	1.005		
August.....	8	10.26	16.53	19.73	4 36.87	75	.169	2.08	10.38		5.70	6.60	28.911	1.653	1.082	.155		
April.....	8	10.26	13.10	13.83	d 35.00	77	.145	2.06	10.39		3.80	4.50	28.937	1.612	1.712	.175		
November.....	7	8.97	17.65	20.84	59.58	62	.323	3.77	9.32		5.80	4.90	28.864	1.775	h. 7.85	1.114		
May.....	7	8.33	15.65	18.27	47.65	78	.204	3.36	9.53		4.10	3.99	28.935	1.913	1.018	.130		
Average.....	5	6.41	10.58	13.13	27.70	88	.153	1.58	.99	10.09	5.10	6.39	29.048	3.528	h. 1.159	1.169		
January.....	5	6.41	17.81	19.45	d 49.10	79	.282	3.15	9.71		3.32	3.01	28.953	.494	.993	1.141		
October.....	4	5.13	13.52	16.45	32.30	83	.161	2.00	10.43		5.00	6.00	28.805	1.786	h. 1.081	1.133		
March.....	3	3.84	12.00	14.13	26.96	85	.125	1.55	.97	10.71	4.00	4.20	29.001	.375	h. 1.274	1.192		
December.....	1	1.28	12.32	14.67	25.51	89	.128	1.53	.97	10.71	5.53	6.10	28.928	1.550	h. 1.387	1.171		
February.....	1	1.28	15.53	19.07	47.61	75	.539	6.07	7.80		3.50	2.34	28.878	5.067	.696	.064		
June.....																		

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

¹ See foot-note b, page 274.

^a See foot-note to Exhibit K, page 279.

^b Exceptions to the proposition that the daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^c Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^d Exceptions to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^e Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

^f Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.
^g Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^h Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

ⁱ Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Cerebro-Spinal Meningitis—(Continued).

The diseases combined in Exhibit 15 seem to have sustained the closest relation, in 1874, to the daily range of temperature. The proposition that a greater than average daily range of temperature is attended with a greater than average number of deaths from the diseases tabulated in Exhibit 15 holds true in nine out of twelve months, and the same proposition concerning the range from day to day holds true in eight out of twelve months in 1874; but in 1873 the former proposition held true in only five out of twelve months, and the latter in only four out of twelve months. These propositions, therefore, become a rule in 1873, but were not in 1874. In 1874, the proposition that the temperature was lower than the average in months when more than the average number of deaths occurred holds true in only five months, while in 1873 it holds true in eight months. The remarkable decrease in the deaths from the diseases grouped in Exhibit 15 in 1874, compared with 1873, is worthy of notice, as when taken in connection with the fact of the higher temperature in 1874, it tends to confirm the opinion already formed and commented upon on pages 260-2 in the Vital Statistics of Michigan, 1873, respecting their causation by excessive cold.

Congestive Chills and Intermittent Fever.—The number of deaths returned as having been caused by Congestive Chills in 1874 is 78,—a decrease of 24 from the number returned for 1873. The largest number occurred in July, the smallest in February and June. In the two months of July and September, over one-third of the deaths from this disease occurred. A great range of temperature, warm weather, and moisture of atmosphere seem to have been attended with a large mortality from Congestive Chills in 1874. The relation between these was closer in 1874 than in 1873; and in 1873 the relation between Congestive Chills and atmospheric pressure was closer than between Congestive Chills and any other atmospheric condition. Exhibit U facilitates the study of Congestive Chills and meteorological conditions, by months.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT W.—INTERMITTENT FEVER.—Deaths returned as having occurred in Michigan from Intermittent Fever, by months during the year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)

MONTHS IN ORDER BY NUMBER OF DEATHS FROM INTERMITTENT FEVER, GREATEST NUMBER FIRST.	DEATHS FROM INTERMITTENT FEVER, 1874.		TEMPERATURE, — FAHR.; MEAN OF THREE DAILY OBSERVATIONS,—7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC., — MONTHLY AVERAGES.						OZONE,— RELATIVE MAXIMUM = 10.		Barometer Reduced to 32° Fahr.,—	Rain and Melted Snow, in Inches.	RANGE OF BAROMETER.†	
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Relative Humidity, or per Cent. of Saturation.	Force of Pressure of Va. por, in Inches.	Weight, in Grains, of Va. por in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours inhaled. ^a	excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.				
			Daily.	From Day to Day, —2 P. M. to 2 P. M.													
Year, 1874...	62	100.00	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.80	28.935	22.059	2.069	.130	
More than the Average No. of Deaths.																	
September	13	20.97	23.87	27.57	62.85	76	.422	4.72	2.95	8.73	2.90	1.30	28.946	1.266	1.075	1.079	
October	10	16.13	17.81	19.45	49.10	79	.282	3.15	1.97	9.71	3.32	3.01	28.953	.494	.995	.141	
July	7	11.29	17.68	21.35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28.907	2.560	.465	1.073	
August	7	11.29	17.23	19.61	60.39	74	.527	5.75	3.59	8.00	2.80	1.10	28.924	1.278	.503	1.005	
May	6	9.68	17.65	20.84	59.58	62	.323	3.77	2.36	9.32	2.80	4.90	28.864	1.775	.785	1.114	
Average	5	8.33	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	1.913	1.018	.130	
Less than the Average No. of Deaths.																	
January	4	6.45	10.58	13.13	27.70	88	.135	1.58	.99	10.69	5.10	6.39	29.048	3.323	1.150	1.169	
April	4	6.45	16.53	19.73	36.87	75	.169	2.08	1.30	10.38	5.70	6.60	28.941	1.668	1.082	1.155	
November	4	6.45	13.10	13.83	33.00	77	.145	2.06	1.29	10.39	3.80	4.50	28.937	1.612	1.712	1.175	
March	3	4.84	13.52	16.45	32.30	83	.161	2.00	1.25	10.43	5.00	6.00	28.895	1.786	1.081	1.133	
June	2	3.23	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3.50	2.34	28.873	5.067	.696	.084	
February	1	1.61	12.32	14.07	25.51	89	.128	1.55	.97	10.71	5.53	6.10	28.928	1.560	1.387	1.171	
December	1	1.61	12.00	14.13	26.96	85	.135	1.55	.97	10.71	4.00	4.20	29.001	.375	1.274	1.109	

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 272.)

† See foot-note ^b, page 274.

• See foot-note to Exhibit K, page 272.

‡ Exceptions to the proposition that the daily Range of temperature was *greater* than the average in months in which *more* than the average number of deaths occurred, and *vice versa*.

• Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

‡ Exception to the proposition that the temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

• Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

† Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

‡ Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

‡ Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

† Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Intermittent Fever seems to be modified by the same atmospheric conditions which modify Congestive Chills. The number of deaths returned as having been caused by Intermittent Fever in 1874 is 62, which is a decrease of 11 from the number returned for 1873. There is even a closer relation between the prevalence of this disease and the range of temperature (both daily and from day to day), warm weather, and a moist atmosphere in 1874 than between Congestive Chills and these atmospheric conditions, respectively. The deaths returned under these two names for what is believed to be one disease, seem, in general, to be similarly modified by the same meteorological conditions. In 1874, the propositions made in the foot-notes ^b, ^c, ^d, and ^e, respectively, to Exhibits U and W, concerning the prevalence of Congestive Chills and Intermittent Fever during great range of thermometer, warm weather, and in a moist atmosphere each becomes a rule with very few exceptions.

VITAL STATISTICS OF MICHIGAN, 1874.

EXHIBIT X.—TYPHOID FEVER.—Deaths returned as having occurred in Michigan from Typhoid Fever, by months, during the Year 1874, and some Meteorological conditions existing at the same time. (See Note on pages 279-280.)

MONTHS IN ORDER BY NUM- BER OF DEATHS FROM TY- PHOID FEVER, GREAT- EST NUMBER FIRST.	DEATHS FROM TYPHOID FEVER, 1874.		TEMPERATURE.—FAHR.; MEAN OF 3 DAILY OB- SERVATIONS,—AT 7 A. M., 2 P. M., AND 9 P. M.		HUMIDITY OF ATMOSPHERE, ETC.— MONTHLY AVERAGES.						OZONE.—RELAT- IVE. MAX- IMUM = 10.		Barometer Reduced to 32° Fahrten- sels.—Average.	Rain and Melted Snow, in Inches.	RANGE OF BAROMETER.	
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Va- por, in Inches.	Weight, in Grains, of Va- por in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by One person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.			Monthly, and Year.	Average Daily.
			Daily.	From Day to Day, —2 P. M. to 2 P. M.												
Year, 1874.....	607	100.00	15.65	18.27	47.05	78	.294	3.35	2.10	9.58	4.10	3.09	28.955	22.959	2.069	.139
October.....	123	20.27	17.81	19.45	49.10	79	.282	3.15	1.97	9.71	3.32	3.01	28.953	.494	.995	.141
September.....	104	17.13	23.87	27.57	62.85	76	.422	4.72	2.95	8.73	2.90	1.20	28.946	1.266	1.075	.079
November.....	92	15.16	13.10	13.83	35.00	77	.145	2.06	1.29	10.39	3.80	4.50	28.937	1.612	1.712	.175
December.....	51	8.40	12.00	14.13	26.96	85	.135	1.55	.97	10.71	4.00	4.20	29.001	3.75	1.274	.199
Average.....	51	8.33	15.65	18.27	47.05	78	.294	3.35	2.10	9.58	4.10	3.09	28.955	1.913	1.018	.139
August.....	50	8.24	17.23	19.61	69.39	74	.527	5.75	3.59	8.09	2.80	1.10	28.924	1.278	.503	.065
January.....	33	5.44	10.58	13.13	27.70	88	.135	1.58	.99	10.09	5.10	6.39	29.048	3.528	1.159	.169
May.....	31	5.11	17.65	20.84	59.58	62	.323	3.77	2.36	9.32	5.80	4.90	28.864	1.775	.783	.114
July.....	30	4.94	17.68	21.35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28.907	2.560	.465	.078
April.....	24	3.96	16.53	19.73	36.87	75	.169	2.08	1.30	10.38	5.70	6.60	28.941	1.668	1.082	.155
June.....	24	3.95	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3.50	2.34	28.878	5.067	.696	.084
February.....	23	3.77	12.32	14.07	25.51	89	.128	1.55	.97	10.71	5.53	6.10	28.928	1.550	1.387	.171
March.....	22	3.63	13.62	16.45	32.30	83	.161	2.00	1.25	10.43	5.00	6.00	28.895	1.786	1.081	.133

Less than the Average Number of Deaths.

More than the Average Number of Deaths.

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

† See foot-note b, page 274.

• See foot-note to Exhibit K, page 279.

b Exceptions to the proposition that the Daily Range of temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

c Exceptions to the proposition that the Range of temperature "from day to day" was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

d Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

e Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

f Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

g Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

h Exceptions to the proposition that the Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

i Exceptions to the proposition that the Mean Daily Range of Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

Typhoid Fever.—The returns of deaths for 1874 show that 4.88 per cent. of all decedents in 1874 died from typhoid fever. This is a larger per cent. than is shown for any previous year except 1870, the order of the several years, those having the greatest per cent. first, being: 1870, 5.33 per cent.; 1874, 4.88; 1873, 4.75; 1872, 4.64; 1871, 3.67. Over one-fifth of all decedents from this disease in 1874 died in October, and over three-fifths of the entire number for the year died during the last four months of the year. Of the different ages, the largest number of deaths from typhoid fever were of persons between the ages of fifteen and twenty years, the next largest number being of persons between the ages of twenty and twenty-five years. Typhoid fever is most prevalent, or proves most fatal, during the decade of life between the ages of fifteen and twenty-five years, nearly three-tenths of the decedents at all ages from this disease in 1874 having been of this period of life. It should be remembered, however, that the inhabitants at such ages outnumber those in any decade of ages older than that.

Exhibit X. enables one to study the relation of typhoid fever in Michigan in 1874 to the coincident meteorological conditions. In 1874, deaths from this disease seem to have been coincident more particularly with a small amount of ozone in the air, and with a high atmospheric pressure, as indicated by the barometer. To the proposition that the ozone was less than the average in months in which more than the average number of deaths occurred, and *vice versa*, there were three exceptions for the day ozone, and five for the night ozone; and there were only two exceptions to the proposition that a greater than average barometric pressure is attended with more than the average number of deaths from typhoid fever, and *vice versa*. An examination of the years 1872, 1873, and 1874 gives evidence of the truth of this proposition.

A great range of the atmospheric pressure seems also to be coincident with increased mortality from typhoid fever. To the proposition that the monthly range of barometer was greater than the average when more than the average number of deaths from typhoid fever occurred, and *vice versa*, there were five exceptions in 1874, and four in 1873. A comparison of the years 1873 and 1874 gives evidence of the truth of this proposition. The range of the barometer for the year 1873 was 1.307, and the proportion of deaths from typhoid fever was 4.75 per cent.; the range of the barometer during the year 1874 was 2.069, and the proportion of deaths from this disease was 4.88 per cent.; that is, an increased range of barometer in 1874 over 1873 was attended with an increased proportion of deaths from typhoid fever.

Diagram No. 8, page 272, indicates graphically the atmospheric pressure, by months, for the years 1871, 1872, 1873, and 1874, and the average for ten years ending with 1874. In each month except August and September, the line indicating the atmospheric pressure for 1874 is higher than the line indicating the average for ten years; and in August they are nearly the same; and by referring to Exhibit 12, page 273, it may be seen that the annual average for 1874 is higher than for any previous year. By reference to Table XX. of deaths, in the Reports for the several years, and the remarks on typhoid fever at the top of this page, it may be seen that the per cent. of deaths from typhoid fever to deaths from all causes was greater in 1874 than in any year except 1870, which suggests the influence of the pressure of the atmosphere upon the mortality from typhoid fever, and corroborates the teaching of Exhibit X., pages 288-9.

Diarrhea.—Of all the deaths in Michigan in 1874, 3.04 per cent. were caused by Diarrhea. This proportion is larger than in 1871 or 1873, but smaller than in 1870 or 1872, the order of the years, greatest proportion first, being: 1870, 3.51 per cent.; 1872, 3.05; 1874, 3.04; 1873, 2.50; 1871, 1.98. The largest number of deaths from diarrhea occurred in August, the smallest in February; and in August and September, 50.26 per cent. of the deaths from this disease occurred. Of all decedents from this disease in 1874, 91.84 per cent. were under five years of age.

Table XXI., page 295, is similar to the corresponding table for 1873, and shows, by geographical divisions of Michigan, the number of deaths from diarrhea and from dysentery, and the per cent. of deaths from each to deaths from all causes. From diarrhea the largest per cent. appears for the north-eastern division, the smallest for the southern central.

If we divide the lower peninsula of the State into three vertical divisions, by combining the ten divisions already used, thus forming what we may term the western, central, and eastern portions, and calculate the average proportion of deaths from diarrhea in each, we find that in the western portion of the lower peninsula the average proportion of deaths from diarrhea in 1874 was 2.53 per cent., in the central portion it was 1.94 per cent., and in the eastern, 10.10 per cent. It appears, therefore, that the danger from this disease is least from north to south through the central portion of the lower peninsula, which has very little lake coast, and that the danger is greatest along the eastern portion, which has a very large lake and river coast. The water-coast of the upper peninsula is greater than of either of the three divisions, but the proportion of deaths from diarrhea in the upper peninsula is less than in the eastern division; it also appears that the excess of water-coast in the eastern division over that in the western division is not so great as the excess of the proportion of deaths from diarrhea in the eastern division over the proportion in the western. These two facts are evidence that water-coast alone is not the only condition which influences the prevalence of diarrhea. From considerations stated on page 294, it seems probable that the cities of Detroit, Flint, and the Saginaws are the causes of the excess of deaths from diarrhea in that part of the State, but none of these cities have sufficiently accurate and systematic mortality statistics to make it possible to study the subject by such means. The nature of the soil may have some influence upon this disease, either direct, on account of its chemical constituents, or indirect as relating to water-supply; and it is to be hoped that the government will soon, by means of a sanitary survey of the State, furnish information on this important subject which shall be available for students of vital statistics. This subject may be further studied in Table XXV., following.

Comments on Exhibit 16 may be seen on page 293.

EXHIBIT 16.—DIARRHEA.—Deaths in Michigan from Diarrhea in July and August of each of the Years 1869–1874, the Average for the Six Years ending with 1874, and some Meteorological conditions existing at the same time, at the Agricultural College, near the center of the thickly-settled part of the State.

JULY AND AUGUST OF EACH OF THE YEARS 1869-1874.		DEATHS FROM DIARRHEA.	Temperature, — F.; Mean of 3 Daily Ob- servations, — 7 A. M., 2 P. M., and 9 P. M.			Rain and Melted Snow, in Inches.	HUMIDITY OF AT- MOSPHERE, ETC., MONTHLY AV- ERAGES.			OZONE, — RELATIVE. MAXIMUM = 10.		Fahren- heit, —Average.*	RANGE OF BAROMETER.†	
			AVERAGE RANGE.	From Day to Day, — 2 P. M. to 2 P. M.	Temperature.		Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor, in Cubic Foot of Air.‡	Day, — 7 A. M. to 2 P. M.	Night, — 9 P. M. to 7 A. M.		Monthly.	Average Daily.
Average {	July.....	63	16.77	16.73	72.18	4.656	77	.604	6.64	2.09	2.28	28.886	.635	.081
	August..	107	17.65	16.56	70.33	2.843	79	.588	6.45	2.44	1.58	28.931	.575	.070
1869 {	July.....	37	a15.20	-----	70.35	s 5.768	79	.590	6.49	-----	-----	28.844	.624	-----
	August..	94	18.00	-----	70.58	h 4.863	75	.598	k 6.56	-----	-----	28.968	.575	-----
1870 {	July.....	88	a17.32	c19.32	74.40	8.024	79	.609	7.19	-----	-----	28.836	.490	-----
	August..	123	b18.22	d19.06	70.11	4.530	81	.594	6.54	-----	-----	28.890	.641	-----
1871 {	July.....	44	18.61	21.48	70.60	3.100	77	.579	6.35	-----	-----	28.891	1.371	-----
	August..	71	18.55	21.74	71.19	1.420	78	.586	6.43	-----	-----	28.907	.782	-----
1872 {	July.....	80	16.45	c19.55	74.91	s 3.360	77	.671	7.33	.88	2.28	28.924	.404	.081
	August..	145	15.32	d17.61	71.22	4.180	83	.650	7.15	.98	.99	28.967	.372	.060
1873 {	July.....	65	15.35	18.68	70.82	5.124	78	.588	l 6.45	3.59	3.06	28.914	.433	.083
	August..	105	18.55	21.32	69.49	.796	81	.570	6.29	3.55	2.65	28.927	.574	.084
1874 {	July.....	61	17.68	21.35	72.02	2.560	71	.539	6.00	l 1.80	m 1.50	28.907	.465	.078
	August..	104	b17.23	19.61	69.39	1.278	74	.527	5.75	2.80	m 1.10	28.924	.503	.065
Av. for 5 Yrs. (to compare with Range from Day to Day).....	July..	68	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Aug..	110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Av. for Yrs. 1872 -1874 (to com- pare with Ozone).....	July..	98	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Aug..	118	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

† See foot-note b, page 274.

‡ See foot-note to Exhibit K, page 279.

* Exceptions to the proposition that the Average Daily Range of temperature was less than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice versa.

b Exceptions to the proposition that the Average Daily Range of temperature was less than the average for August in months of August when more than the average number of deaths from Diarrhea occurred, and vice versa.

c Exceptions to the proposition that the Average Range of temperature from day to day was less than the average for July in months of July when more than the average number of deaths from Diarrhea occurred, and vice versa.

d Exceptions to the proposition that the Average Range of temperature from day to day was less

THE CAUSES OF DIARRHEA.

It has been found that, in a general way, there is a very marked relation of the deaths from diarrhea to the temperature, when the subject is studied for any single year; the deaths occur in the greatest proportion during or immediately succeeding the hottest month in the year. If the evidence stopped here it might still be believed that the relation of the weather to the deaths from diarrhea was only an incidental and not a causative relation, the deaths being attributed to the fruit, green corn, etc., so plentiful at that season of the year, or to some other supposed cause; but the evidence in Exhibit 16, page 292, showing the relations of meteorological conditions to the deaths from diarrhea in the months of July and August for the six years, 1869-1874, seems to the compiler to be very strong, and to lead to the belief that, in Michigan at least, the deaths from diarrhea are very closely related to the meteorological conditions, and that there is a more or less direct causative relation between high temperature and deaths from diarrhea. By referring to Exhibit 16, it will be seen that there is only one very slight exception to the proposition that the average temperature was *higher* than the average for July in the months of July when *more* than the average number of deaths from diarrhea occurred, and the average temperature was *lower* than the average for July in the months of July when *less* than the average deaths from diarrhea occurred. The only exception to this proposition was in July, 1873, and was very slight indeed, and is easily accounted for by the fact that the average temperature for June, 1873, was higher than the average June temperature in this State, and especially high near the close of the month, and it is evident that the deaths from diarrhea may follow their causes in such a manner that a high temperature in one month is followed by an increased death-rate from diarrhea in the next following month.

That the effects lag behind the high temperature, or are due to reactions from it, also seems to explain every one of the exceptions, noted in the same column, relating to the month of August. In 1869 the average temperature for August was very slightly higher than the average August temperature for

than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

* Exceptions to the proposition that the Average Temperature was *higher* than the average for July in months of July when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

† Exceptions to the proposition that the Average Temperature was *higher* than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

‡ Exceptions to the proposition that the amount of rain and melted snow was *greater* than the average for July in months of July when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

§ Exceptions to the proposition that the amount of rain and melted snow was *greater* than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

¶ Exceptions to the proposition that the Average Relative Humidity was *greater* than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

‡ Exceptions to the proposition that the Absolute Humidity was *greater* than the average for July in months of July when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

* Exceptions to the proposition that the Absolute Humidity was *greater* than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

† Exception to the proposition that the Average Day Ozone was *less* than the average for July or August in months of July or August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

‡ Exception to the proposition that the Average Night Ozone was *less* than the average for July or August in months of July or August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

§ Exceptions to the proposition that the Atmospheric Pressure was *more* than the average for August in months of August when *more* than the average number of deaths from Diarrhea occurred, and *vice versa*.

the six years 1869-1874, and the deaths in that August from diarrhea were less than the average number for August in the six years, but the average temperature in July, 1869, was considerably less than the average, and it is reasonable to believe that the favorable temperature in July overbalanced the slightly unfavorable temperature in August, and thus resulted a less than average number of deaths from diarrhea in August, 1869. In 1870 precisely the reverse of these conditions prevailed, and the unusual number of deaths from diarrhea in August, 1870, was probably due to the very high temperature in July. The only other exception occurred in 1871, and it is explained in the same manner as the one in the year 1869.

Taking into consideration all the facts we can learn concerning the conditions favorable to the occurrence of diarrhea, it seems certain that there are other causes than high temperature, notwithstanding the very close relations between high temperature and this disease. One important fact in this connection is the apparent greater prevalence of this disease in cities than in rural districts. Though it is possible this may be due to a higher body temperature in the city than in the country, it seems probable that it is somewhat connected with the comparative impurity of the air of cities and the absence of ozone. There is evidence that diarrhea may sometimes be caused by inhaling foul odors, and there are other meteorological conditions so closely connected with temperature that it cannot yet be assumed that a disease which, like diarrhea, is coincident with a high temperature, is entirely caused by the high temperature. When the temperature is high the ozone is generally deficient, and the wind is less than at other seasons of the year. Upon these two elements, wind and ozone, depends, in great degree, the purity of the air. In cities the air is constantly receiving foul emanations, which should be as constantly replaced by fresh air; but in the absence of wind to change the air, and of ozone to destroy the decomposing organic material in the air, the atmosphere in a city is much more rapidly rendered dangerous to health than is that in the country.

Dysentery.—The number of deaths returned as having been caused by dysentery in Michigan in 1874 was 304, which is 2.43 per cent. of the deaths from all causes. The order of the years 1870-1874, those having the greatest proportion of deaths first, is identical with the order for diarrhea, as follows: 1870, 3.46 per cent.; 1872, 3.41; 1874, 2.43; 1873, 2.20; 1871, 1.77. The largest proportion occurred in August, as was the case from diarrhea, 64.47 per cent. of all the deaths from this disease occurring in August and September, and 78.62 per cent. of the decedents from this disease were under five years of age.

The largest proportion of deaths from dysentery was returned for the north-western division, and from the northern division there were none returned. If we divide the lower peninsula into three vertical divisions, as we suggested in our comments on diarrhea,—western, central, and eastern,—we find that the relation of the three divisions to each other, as regards proportion of deaths from dysentery, is similar to their relation as regards proportion of deaths from diarrhea,—western portion, 4.80 per cent. of deaths from dysentery; central, 2.48 per cent.; and eastern, 4.94 per cent.

TABLE XXI.—DIARRHEA AND DYSENTERY.—*Exhibiting, for the State and for eleven Geographical Divisions of the State, during the year 1874, the Number of Deaths returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.*	DIARRHEA, 1874. ACUTE AND CHRONIC.		DYSENTERY, 1874. ACUTE AND CHRONIC.	
	Number of Deaths.	Per Cent. to Deaths from All Causes, by Geographi- cal Divis- ions.	Number of Deaths.	Per Cent. to Deaths from All Causes, by Geographi- cal Divis- ions.
STATE.....	390	3.04	304	2.43
Upper-Peninsular.....	21	4.73	23	3.51
Nothwestern.....	5	2.42	19	2.18
Northern.....	3	2.44		
Northeastern.....	16	21.83	3	4.00
Western.....	49	3.72	50	3.90
Northern-Central.....	6	3.23	8	4.30
Bay and Eastern.....	66	3.61	41	2.24
Central.....	24	1.16	64	3.09
Southwestern.....	15	1.34	16	1.43
Southern-Central.....	21	.94	57	2.54
Southeastern.....	144	5.36	23	3.57

* For counties included in each Division, see page 181.

Comments on this table may be seen on page 291.

Scarlet Fever.—During the year 1874, 440 deaths occurred in Michigan from scarlet fever, according to the returns. This is 3.53 per cent. of deaths from all causes, and is the fourth *cause* in order of greatest proportional mortality in this State in 1874, although it is fifth in order in Table XVIII. and Exhibit T, pages 258 and 259, owing to the fact that the number of still-births is greater than the number of deaths from scarlet fever. The largest proportion occurred in April, the smallest in July; and of the decedents at different ages, 63.41 per cent. were under five years old.

Exhibit Y furnishes an opportunity of studying the relation of scarlet fever to the coincident meteorological conditions. Two or three atmospheric conditions seem to be related to this disease,—temperature, vapor inhaled, and atmospheric ozone. To the proposition that more than an average number of deaths occurred in months when the temperature was lower than the average, and *vice versa*, there were four exceptions in 1874; and to the proposition that more than an average number of deaths occurred in months when less than an average quantity of vapor was inhaled, and *vice versa*, there were five exceptions in 1874. In 1873, there was only one exception to the former proposition, and only two to the latter; in 1872 there were four exceptions to each proposition. If these conditions are, as the evidence indicates, in some degree causative of scarlet fever, it seems probable that they are so partly because in

some way they favor the introduction of the specific contagium of the disease into the human body. It has been found that deaths from bronchitis and from some other diseases of the air passages are more than usually frequent when the atmosphere is cold and dry, and there is an excess of ozone. There seem to be good reasons for the belief that unintentional inoculation of the throat and air passages with the contagium of scarlet fever is more likely to occur when the throat and air passages are irritated as they are believed to be sometimes by cold, dry, and highly ozonized air.

EXHIBIT Y.—SCARLET FEVER.—*Deaths from Scarlet Fever returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279-280.)*

MONTHS IN ORDER BY NUMBER OF DEATHS FROM SCARLET FEVER, GREATEST FIRST.	DEATHS FROM SCAR- LET FEVER, 1874.		Temperature, — Fahr.: Mean of three Daily Observations, —7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC., — MONTHLY AVERAGES.					OZONE, — RELATIVE. MAXIMUM = 10.		
	Number.	Per Cent. of Total.	Average Range.			Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^a	Day, —7 A. M. to 2 P. M.	Night, —9 P. M. to 7 A. M.	Barometer Reduced to 32° Fahrenheit, —Average. ^e
			Daily.	From Day to Day, — 2 P. M. to 2 P. M.	Temperature.								
Year, 1874.....	6440	100.00	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
More than the Average No. of Deaths.	April.....	71	16.14	16.53	19.73	75	.169	2.08	1.30	10.38	5.70	6.60	28.941
	March.....	55	12.50	13.52	16.45	83	.161	2.00	1.25	10.43	5.00	6.00	28.895
	February..	52	11.82	12.32	14.07	89	.128	1.55	.97	10.71	5.53	6.10	28.928
	May.....	46	10.45	17.65	20.84	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	Average.....	37	8.33	15.65	18.27	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
Less than the Average No. of Deaths.	January...	34	7.73	10.58	13.13	88	.135	1.58	.99	10.69	5.10	6.39	29.048
	October...	31	7.04	17.81	19.45	79	.282	3.15	1.97	9.71	3.32	3.01	28.953
	June.....	30	6.82	15.53	19.07	75	.559	6.07	3.79	7.89	3.50	2.34	28.878
	September	29	6.50	23.87	27.57	76	.422	4.72	2.95	8.73	2.90	1.20	28.946
	December.	28	6.36	12.00	14.13	85	.135	1.55	.97	10.71	4.00	4.20	29.001
	August....	27	6.14	17.23	19.61	74	.527	5.75	3.59	8.69	2.80	1.10	28.924
	November	19	4.32	13.10	13.83	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	July.....	18	4.09	17.68	21.35	71	.539	6.00	3.75	7.93	1.80	1.50	28.907

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a See foot-note to Exhibit K, page 279.

^b Includes 9 deaths from Scarlet Rash.

^c Exceptions to proposition that *more* than an average number of deaths occurred in months in which the temperature was *less* than the average, and *vice versa*.

^d Exceptions to proposition that *more* than an average number of deaths occurred in months in which *less* than an average quantity of vapor was inhaled, and *vice versa*.

^e Exceptions to the proposition that *more* than the average number of deaths occurred in months in which the Ozone was *more* abundant than the average, and *vice versa*.

Consumption.—This disease continues to head the list of principal causes of death in Michigan. In 1874, 1,392 deaths are reported to have been caused

by consumption, which is 11.14 per cent. of deaths from all causes. The mortality from this disease is quite uniform in this State from year to year, the number in each year being: 1872, 1,467; 1870, 1,451; 1873, 1,447; 1874, 1,392; 1871, 1,303; 1869, 1,233. The proportion which the deaths from consumption bear to all deaths, however, seems to have been decreasing from 1868 to 1874, the order of the years, those having the greatest proportion first, being: 1869, 13.48 per cent.; 1870, 13.47; 1871, 13.39; 1874, 11.14; 1872, 10.96; 1873, 10.15. The largest proportion in 1874 was returned for December, the smallest for January; but it should be borne in mind that probably a larger proportion of the deaths which occur is returned for the last than for the first part of the year. There is an excess of females in each year. The decedents from this disease in 1874 between the ages of twenty and twenty-five years outnumbered those of any other five-year period of age; but it should be remembered that the inhabitants aged twenty to twenty-five years outnumber those in any period of age older than that. This seems to be one reason why the deaths are so numerous at those ages. Judging from the vital statistics in this State, the very general belief that the danger from consumption is less after the age of forty years is very far from the truth, the fact being that the per cent. of deaths to inhabitants increases rapidly after the age of fifty years. The reader who desires to study this subject further is respectfully referred to pages 314 and 315 of the Vital Statistics of Michigan, 1870, and especially to the diagram facing page 314, wherein may be seen the relation of deaths of persons of each sex at each period of age to the inhabitants of the same sex and age.

Exhibit N is made for the purpose of showing, by sex, the proportional number of deaths from consumption, in 1874, in each month if equalized to uniform length. It also shows, by sex, the average monthly number of deaths from this disease.

EXHIBIT N.—CONSUMPTION.—*By Sex, the Number of Deaths returned as having occurred in Michigan from Consumption during the Year 1874, by Months Equalized to Uniform length of 30.44 days each; also the average Number per Month. (Deaths in Unknown Month and of Persons of Unknown Sex Excluded.)*

SEX.	Total.	DEATHS FROM CONSUMPTION IN 1874, BY MONTHS OF EQUAL LENGTH.												Monthly Average.
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Total....	1,386	66	87	107	123	147	116	101	126	120	126	115	152	115.50
Males....	652	30	40	64	55	71	54	47	59	56	60	47	69	54.33
Females..	734	36	47	43	68	76	62	54	67	64	66	68	83	61.17

* Excluding 6 deaths in unknown month. The number of deaths from Consumption, as returned, is 1,392.

There are four exceptions in 1874 to the proposition that the temperature was higher than the average in months when more than the average number of deaths from consumption occurred, and *vice versa*; and to the proposition that more than the average amount of vapor was inhaled in months when more than the average number of deaths occurred, and *vice versa*, there are five exceptions. The foregoing is the same as saying that in eight out of twelve cases, and in seven out of twelve cases, respectively, the propositions held true. Other items of interest may be learned by a study of Exhibit O.

EXHIBIT O.—CONSUMPTION.—Deaths from Consumption, returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279–280.)

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONSUMPTION, GREATEST FIRST.	DEATHS FROM CONSUMP- TION, 1874.		Temperature,—Fahr.; Mean of three Daily Observations,—at 7 A. M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC., —MONTHLY AVERAGES.					OZONE,— RELATIVE. MAXIMUM= 10.		Barometer Reduced to 32° Fahr.,—Average.*	
	Number.	Per Cent. of Total.	Average Range.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
			Daily.	From Day to Day,—2 P. M. to 2 P. M.										
Year, 1874.....	b 1,386	100.00	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
More than the Average Number of Deaths.	Dec.....	155	11.18	12.00	14.13	26.96	85	.135	1.55	d .97	10.71	4.00	4.20	28.001
	May.....	150	10.82	17.65	20.84	59.58	62	.323	3.77	2.36	9.32	5.80	4.90	28.864
	Aug.....	128	9.24	17.23	19.61	69.39	74	.527	5.75	3.59	8.09	2.80	1.10	28.924
	Oct.....	128	9.24	17.81	19.45	49.10	79	.282	3.15	d 1.97	9.71	3.32	3.03	28.953
	April.....	121	8.73	16.53	19.73	36.87	75	.169	2.08	d 1.30	10.38	5.70	6.60	28.941
	Sept.....	118	8.51	23.87	27.57	62.85	76	.422	4.72	2.95	8.73	2.90	1.20	28.946
Average.....		116	8.33	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935
Less than the Average Number of Deaths.	June.....	114	8.23	15.53	19.07	70.61	75	.559	6.07	d 3.79	7.89	3.50	2.34	28.878
	Nov.....	113	8.15	13.10	13.83	35.00	77	.145	2.06	1.29	10.39	3.80	4.50	28.937
	March.....	109	7.87	13.52	16.45	32.30	83	.161	2.00	1.25	10.43	5.00	6.00	28.895
	July.....	103	7.43	17.68	21.35	72.02	71	.539	6.00	d 3.75	7.93	1.80	1.50	28.907
	Feb.....	80	5.77	12.32	14.07	25.51	89	.128	1.55	.97	10.71	5.53	6.10	28.928
	Jan.....	67	4.83	10.58	13.13	27.70	88	.135	1.58	.99	10.69	5.10	6.39	29.048

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a See foot-note to Exhibit K, page 279.

^b Six in unknown month excluded.

^c Exceptions to the proposition that the Temperature was *higher* than the average in months when *more* than the average number of deaths from Consumption occurred, and *vice versa*.

^d Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *more* than the average number of deaths from Consumption, and *less* than the average amount in months in which *less* than the average number of deaths occurred.

Pneumonia.—The number of deaths from pneumonia returned as having occurred in Michigan has been constantly increasing since 1869, the order of the years, the one with the greatest number of deaths first, being: 1874, 800; 1873, 706; 1872, 641; 1871, 441; 1870, 376. The proportion of all deaths returned as caused by this disease also has increased with each year since 1869, whereas the proportion of deaths from consumption has generally decreased annually since 1869. In 1874, 6.40 per cent. of the deaths from all causes were caused by pneumonia, which is second only to consumption in proportional mortality.

The largest number of deaths from pneumonia in 1874 occurred in April, the smallest in July. More than one-third of all decedents from this disease in 1874 were under five years of age, the per cent. being 34.50. In each year more males than females have died from this disease in this State.

Exhibit 17, page 302, is a new one, showing, by months, the number of deaths from pneumonia for each of the years 1871-1874, and the monthly average for those four years. The data contained in this exhibit are graphically represented in Diagram 9, page 303. In this diagram may readily be seen what has been remarked above,—that 1874 was an exceptional year for pneumonia, as compared with other years. The line representing the deaths from pneumonia in 1874 is very high in March, April, and May; and it is generally higher than the line representing the average for the four years. This is a very favorable opportunity for studying the influence of meteorological conditions, particularly as some conditions which usually vary together are found not to do so in this instance. By the table on page 264 and by Diagram No. 6 on page 265, it may be seen that the temperature was very unusually low in April, 1874, and this might have some relation to the deaths in April, 1874, and perhaps in the succeeding month, but the deaths from pneumonia were also unusually numerous in March, 1874, when the temperature was even a little higher than usual for that month. Turning to pages 268-9 it may be seen that similar remarks may be made respecting the humidity of the atmosphere in March and April, 1874; though the generally drier air than usual in the succeeding months may indicate a closer relation of humidity than of temperature to the causation of pneumonia. An unpublished diagram (used for purposes of study by the compiler) shows that according to the night observations the ozone was slightly excessive in January, February, March, and May, and greatly in excess in April, 1874, though not excessive after May, and therefore not corresponding with the greater than usual number of deaths from pneumonia after May. Making the comparisons of deaths and conditions in 1874 with those of preceding years, it would seem, however, that the evidence of causation of deaths from pneumonia in 1874 is stronger relative to humidity than to temperature, and rather stronger relative to ozone than to humidity; but by turning to pages 272-3, it would appear that the unusually high pressure of the atmosphere during the first part of the year 1874 may have had even a closer relation to the deaths from pneumonia than had any of the other meteorological conditions.

Exhibit 18, page 300, is a new one, planned to facilitate the study of the influence of meteorological conditions upon deaths from pneumonia. To study every month in the year for a series of years is quite an undertaking, and inasmuch as the greatest number of deaths from pneumonia occur in every year during the months of February, March, and April, this exhibit has been made to study the relations of meteorological conditions in February and March for the several years 1869-74. By studying the foot-notes to the exhibit, it will be seen that several meteorological conditions seem to bear close relations to the deaths from pneumonia,—range of temperature, temperature, absolute humidity, night ozone, and atmospheric pressure sustaining the closest relations.

The subject is further studied, as relates to the year 1874, in Exhibit P, page 301.

EXHIBIT 18.—PNEUMONIA.—Deaths returned as having occurred in Michigan from Pneumonia in February and March of each of the Years 1869–1874, the Average for the Six Years ending with 1874, and some Meteorological Conditions existing at the same time, at the Agricultural College, near the centre of the thickly settled part of the State. (See Note on pages 279–280.)

FEBRUARY AND MARCH OF EACH OF THE YEARS 1869-1874.		DEATHS FROM PNEUMONIA.	Temperature.—F. Mean of 3 Daily Ob- servations,—7 A. M., 2 P. M., and 9 P. M.				HUMIDITY OF AT- MOSPHERE, ETC., —MONTHLY AV- ERAGES.			OZONE.— RELATIVE. MAXIMUM = 10.		Fahren- Barometer Reduced to 32° heit—Average.†	Rain and Melted Snow, in Inches.	RANGE OF BAROMETER.‡	
			AVERAGE RANGE.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor, in Cubic Foot of Air.*	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.	Monthly.	Average Daily.				
														Daily.	From Day to Day,—2 P. M. to 2 P. M.
Average	Feb..	65	15.60	18.25	23.75	89	.123	1.49	4.58	6.01	28.847	1.449	1.169	.163	
	Mar..	74	15.23	17.75	30.24	81	.144	1.73	4.03	5.84	28.875	2.354	1.039	.172	
1869.....	Feb..	64	17.10	.....	26.66	95	.148	1.78	.....	.....	28.839	2.950	1.483	.....
	Mar..	72	17.40	.....	27.60	82	.124	1.48	.....	.....	28.934	1.653	.717	.....
1870.....	Feb..	46	15.46	17.89	24.25	84	.112	1.35	.....	.....	28.807	1.203	1.215	.....
	Mar..	44	14.58	18.48	30.28	84	.148	1.76	.....	.....	28.845	2.007	1.161	.....
1871.....	Feb..	50	13.71	17.39	25.65	90	.132	1.58	.....	.....	28.816	1.730	.979	.....
	Mar..	64	14.42	19.26	38.18	83	.194	2.28	.....	.....	28.810	3.910	.844	.....
1872.....	Feb..	64	20.41	23.21	21.34	84	.100	1.23	4.00	6.00	28.842	.490	1.107	.111	
	Mar..	75	17.32	19.97	24.75	85	.109	1.32	3.00	5.71	28.911	2.040	1.121	.106	
1873.....	Feb..	110	14.61	18.71	19.10	91	.117	1.43	4.21	5.93	28.847	.770	.842	.197	
	Mar..	80	14.16	16.61	28.30	71	.127	1.52	4.09	3.80	28.852	1.780	1.307	.218	
1874.....	Feb..	57	12.32	14.07	25.51	89	.128	1.53	5.53	6.10	28.928	1.560	1.287	.171	
	Mar..	108	13.52	16.45	32.30	83	.161	2.00	5.00	6.00	28.885	1.786	1.061	.133	
Av. for years 1872-1874 to compare with Ozone.....	Feb..	77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Mar..	88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* See foot-note to Exhibit K, page 279.

† Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

‡ See foot-note b, page 274.

a Three, out of the six, cases in which the average daily range of temperature was less than the average, and the number of deaths was less than the average.

b Two, out of the six, cases in which the average daily range of temperature was less than the average, and the number of deaths was less than the average.

c Three, out of the five, cases in which the average range of temperature from day to day was less than the average, and the number of deaths was less than the average.

d Two, out of the five, cases in which the average range of temperature from day to day was less than the average, and the deaths less than the average, or the range and the deaths both greater than the average.

e Five, out of the six, cases in which the average temperature was higher, and the deaths less than the average, or the temperature lower and the deaths greater than the average.

f Four, out of the six, cases in which the average temperature was higher, and the deaths less than the average, or the temperature lower and the deaths greater than the average.

g Three, out of the six, cases in which the relative humidity and the deaths were both less than the average, or the relative humidity and the deaths both greater than the average.

h Two, out of the six, cases in which the relative humidity was greater than the average, and the deaths greater than the average.

i, j, k, l, m, n, o, p. See bottom of page 301.

EXHIBIT P.—PNEUMONIA.—Deaths from Pneumonia returned as having occurred in Michigan during the Year 1874, and some Meteorological Conditions existing at the same time. (See Note on pages 279–280.)

MONTHS IN ORDER BY NUMBER OF DEATHS FROM PNEUMONIA, GREATEST NUMBER FIRST.	DEATHS FROM PNEUMONIA, 1874.		Temperature, — Fahr.; Mean of three Daily Observations,—7 A.M., 2 P. M., and 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC.,— MONTHLY AVERAGES.					OZONE,—REL- ATIVE. MAXIMUM = 10.		Barometer Reduced to 32° Fahrenheit, — Average.*	
	Number.	Per Cent. of Total.	AVERAGE RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours, in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
			Daily.	From Day to Day,— 2 P. M. to 2 P. M.										
Year, 1874.....	b 798	100.00	15.65 ^a	18.27 ^a	47.05 ^a	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
More than the Average No. of Deaths.	April...	141	17.67	16.53	19.73	36.87	75	.169	2.08	1.30	10.38	5.70	6.60	28.941
	March...	108	13.53	13.52	16.45	32.30	83	.161	2.00	1.25	10.43	5.00	6.00	f 28.895
	May....	108	13.53	17.65	20.84	c 59.58	62	.323	3.77	d 2.36	9.32	5.80	4.90	f 28.864
	Dec....	93	11.65	12.00	14.13	26.96	85	.135	1.55	.97	10.71	e 4.00	4.20	29.001
Average.....	67	8.33	15.65	18.27	47.05	78	.294	3.36	2.10	9.58	4.10	3.99	28.935	
Less than the Average Number of Deaths.	Feb....	57	7.14	12.32	14.07	c 25.51	89	.128	1.55	d .97	10.71	e 5.53	e 6.10	28.928
	Nov....	50	6.27	13.10	13.83	c 35.00	77	.145	2.06	d 1.29	10.39	3.80	e 4.50	f 28.937
	Jan....	49	6.14	10.58	13.13	c 27.70	88	.135	1.58	a .99	10.69	e 5.10	e 6.39	f 29.048
	June...	46	5.77	15.53	19.07	70.61	75	.559	6.07	3.79	7.89	3.50	2.34	28.878
	Sept....	46	5.76	23.87	27.57	62.85	76	.422	4.72	2.95	8.73	2.90	1.20	f 28.946
	Oct.....	39	4.89	17.81	19.45	49.10	79	.282	3.15	d 1.97	9.71	3.32	3.01	f 28.953
	Aug....	32	4.01	17.23	19.61	69.39	74	.527	5.75	3.59	8.09	2.80	1.10	28.924
July....	29	3.64	17.68	21.35	72.02	71	.539	6.00	3.75	7.93	1.80	1.50	28.907	

* Not corrected for instrumental error. (See Exhibit 12 and remarks thereon, page 273.)

^a See foot-note to exhibit K, page 279.

^b Two deaths in unknown month excluded.

^c Exceptions to the proposition that the temperature was greater than the average in months in which less than the average number of deaths from Pneumonia occurred, and vice versa.

^d Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was less than an average number of deaths from pneumonia, and vice versa.

^e Exceptions to the proposition that the ozone was more than the average in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

^f Exceptions to the proposition that the atmospheric pressure was greater than the average in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

Comments on the subject studied in Exhibit P are printed on pages 299 and 302.

¹ Four, out of the six, cases in which the absolute humidity was greater and the deaths less than the average, or the absolute humidity less and the deaths greater than the average.

² One out of three cases in which the day ozone was less than the average, and the deaths less than the average.

³ Two, out of three, cases in which the day ozone and the deaths were both less than the average, or the day ozone and the deaths were both greater than the average.

⁴ One out of three cases in which the night ozone and the deaths were both less than the average.

⁵ Three, out of three, cases in which the night ozone and the deaths were both less than the average, or the night ozone and the deaths greater than the average.

⁶ Four, out of the six, cases in which the pressure of the atmosphere was less than the average, and the deaths from pneumonia were less than the average.

⁷ Four, out of the six, cases in which the pressure of the atmosphere was less and the deaths less than the average, or the pressure and the deaths were both greater than the average.

Diagram No. 10 represents, by months, the deaths from pneumonia in each of the years 1871-1874, and the average for four years ending with 1874, the number of deaths having been corrected for probable omissions in the enumeration, the per cent. of correction used being that used for deaths from all causes, as shown in the second line of Exhibit C of deaths, in Reports for 1873 and 1874, and in Exhibit G, of deaths, in Reports for 1871 and 1872, respectively. The general showing of this diagram is very similar to that of diagram No. 9, although the lines representing the deaths in the fore part of each year are relatively higher. It has been planned and is published in order to show the effect of such a correction as is worked out for all deaths when it is applied to the deaths from a single disease. It may be seen that in Diagram No. 10 the scale is one-half that in Diagram No. 9, but the changes by the correction are not so great as might be expected, and the inference is plain that, for the present, the study of the relations of the deaths *as returned* to the meteorological conditions is well worthy of continuance.

EXHIBIT 17.—PNEUMONIA.—*By Months, the Number of Deaths returned as having occurred from Pneumonia, in Michigan, during each of the Years 1871-1874, and the Average for Four Years ending with 1874.*

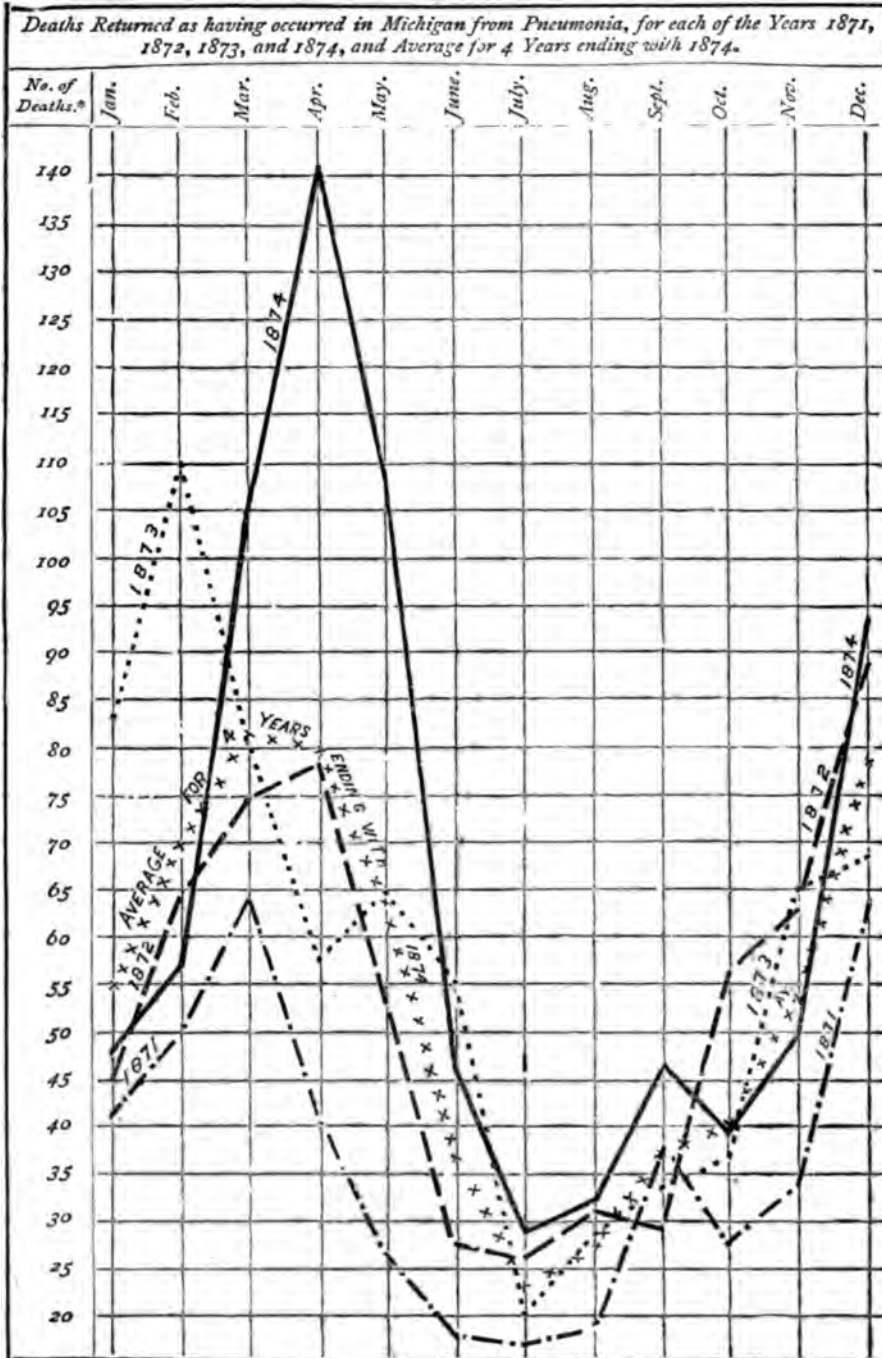
YEARS.	To- tals.	PNEUMONIA, BY MONTHS,—1871-1874.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1871.....	441	41	50	64	41	27	18	17	19	38	28	34	63	1
1872.....	641	46	64	75	79	53	28	26	31	29	56	63	89	2
1873.....	706	84	110	80	58	65	55	20	29	34	37	65	68	1
1874.....	800	49	57	108	141	108	46	29	32	46	39	50	93	2
Av. for 4 y'rs.	647	55	70	82	80	63	37	23	28	37	40	53	78	1

The statements in Exhibit 17 are graphically represented in Diagram No. 9, on the opposite page. Remarks on the subject are printed on pages 299 and 302.

CORRELATION OF CONSUMPTION AND PNEUMONIA.

In studying these diseases, the compiler makes the propositions for pneumonia the opposite of those made for consumption; and we find that to the proposition that the temperature was greater than the average in months in which less than the average number of deaths from pneumonia occurred, and *vice versa*, there are four exceptions in 1874,—the same as to the opposite proposition for consumption; and to the proposition that more than an average amount of vapor was inhaled in months in which there was less than the average number of deaths from pneumonia, and *vice versa*, there were five exceptions in 1874,—also the same as to the opposite proposition for consumption. The evidence in the statistics for 1874 coincide with that for previous years,—that consumption and pneumonia are, respectively, most prevalent under opposite circumstances.

DIAGRAM No. 9.



*Scale=20 to the inch.

Drawn by L. De Lamarier.

Designed by Henry B. Baker.

MICH. ENG. CO.

DIAGRAM No. 10.

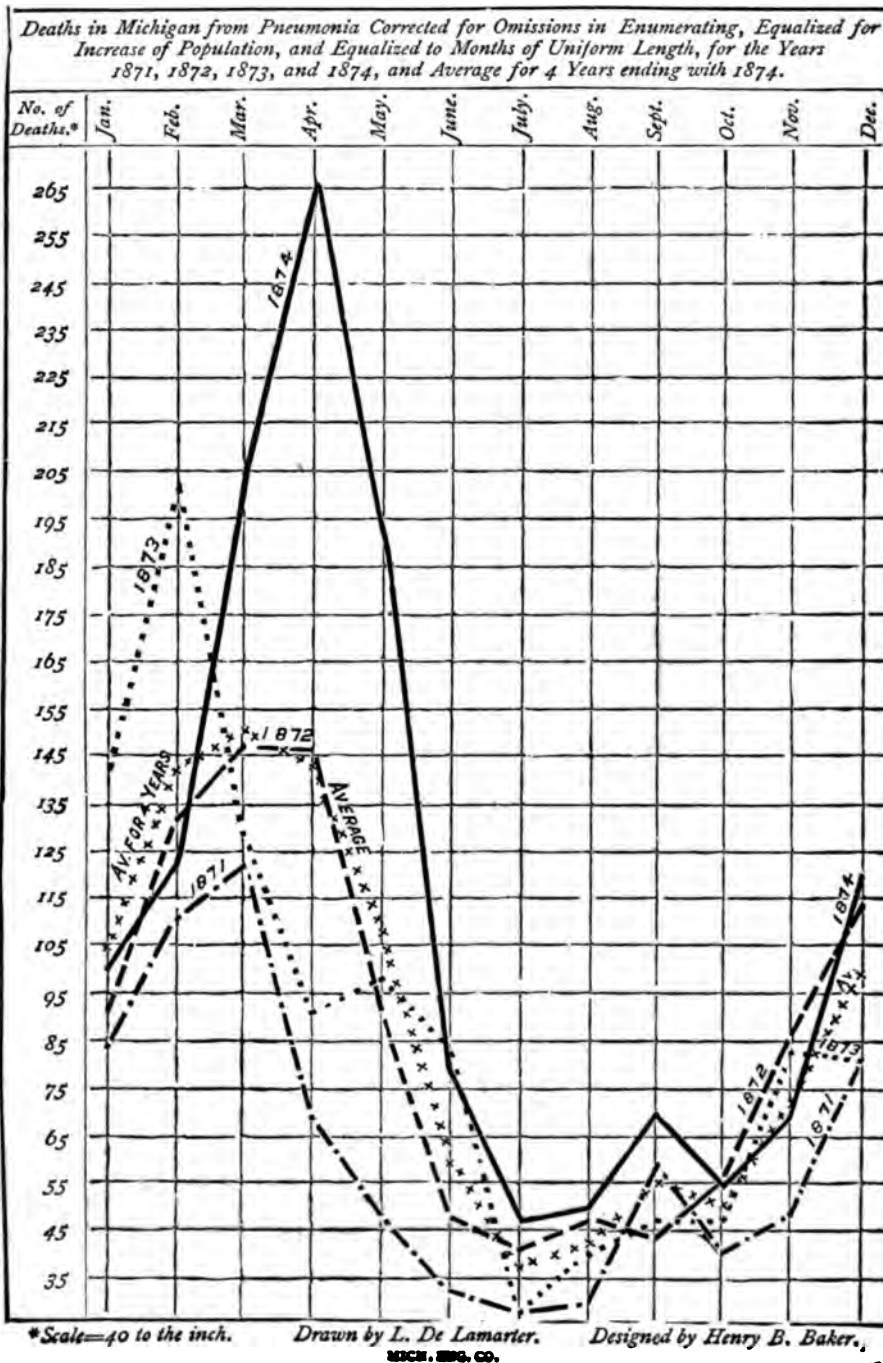


TABLE XXII.—CORRELATION OF CONSUMPTION AND PNEUMONIA.—Deaths from Consumption and Pneumonia returned as having occurred in Michigan during the Year 1874, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

MONTHS, 1874.	DEATHS FROM CONSUMPTION, 1874.										DEATHS FROM PNEUMONIA, 1874.									
	NUMBER.					PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.					NUMBER.					PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				
	Males.	Females.	Total.	Per Cent. of Deaths in each Month to Total for Year.	Males.	Females.	Males.	Females.	Excess.	Males.	Females.	Total.	Per Cent. of Deaths in each Month to Total for Year.	Males.	Females.	Unknown.	Males.	Females.	Unknown.	Excess.
Year, 1874.....	656	736	1,392	100.00	47.13	52.87	5.74	5.74	.....	.....	.....	800	100.00	53.63	41.25	.12	53.63	41.25	.12	.....
January.....	30	37	67	4.81	44.78	55.22	.....	10.44	c	.....	.....	49	6.13	57.14	42.86	.....	57.14	42.86	.....	c
February.....	37	43	80	5.75	46.25	53.75	c	7.50	c	.....	.....	57	7.13	54.38	45.61	.....	54.38	45.61	.....	c
March.....	65	44	109	7.83	59.63	40.37	16.26	.....	.....	.....	b	108	13.50	62.96	37.04	.....	62.96	37.04	.....	25.92
April.....	54	67	121	8.69	44.63	55.37	c	10.74	c	.....	.....	141	17.63	57.45	42.55	.....	57.45	42.55	.....	14.80
May.....	73	77	150	10.78	48.67	51.33	c	2.66	c	.....	.....	108	13.50	62.96	37.04	.....	62.96	37.04	.....	25.92
June.....	53	61	114	8.19	46.49	53.51	c	7.02	c	.....	.....	46	5.75	54.35	45.65	.....	54.35	45.65	.....	8.70
July.....	48	55	103	7.40	46.60	53.40	c	6.80	c	.....	.....	29	3.63	55.17	44.83	.....	55.17	44.83	.....	10.34
August.....	60	68	128	9.20	46.87	53.13	c	6.26	c	.....	b	32	4.00	53.13	46.88	.....	53.13	46.88	.....	6.25
September.....	55	63	118	8.48	46.61	53.39	c	6.78	c	.....	b	46	5.75	58.70	39.13	.....	58.70	39.13	.....	19.57
October.....	61	67	128	9.20	47.66	52.34	c	4.08	c	.....	b	39	4.88	51.28	48.72	.....	51.28	48.72	.....	2.56
November.....	46	67	113	8.12	40.71	59.29	c	18.08	c	.....	.....	50	6.25	56.00	44.00	.....	56.00	44.00	.....	12.00
December.....	70	85	155	11.14	45.16	54.84	c	9.68	c	.....	.....	93	11.63	62.37	37.63	.....	62.37	37.63	.....	24.74
Unknown.....	4	2	6	.43	68.67	31.33	33.34	.....	.....	.....	.....	2	.25	100.00	.....	.....	100.00	.....	.....	100.00
Average.....	54.33	61.17	115.50	82.08	47.01	53.00	.....	.....	.....	.....	.....	68.50	83.13	57.16	42.86	.....	57.16	42.86	.....	.....

* Excluding deaths in unknown month.

b Less than the average number of deaths from consumption, and more than the average from pneumonia, or vice versa.

c Eleven out of twelve months in which there was an excess of deaths of one sex from consumption and of the opposite sex from pneumonia.

TABLE XXIII.—CORRELATION OF CONSUMPTION AND PNEUMONIA.—*Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan during the Year 1874.*

DEATHS FROM CONSUMPTION, 1874.										DEATHS FROM PNEUMONIA, 1874.									
AGES IN PERIODS OF YEARS, 1874.		NUMBER.					PER CENT. OF THE SEXES.			NUMBER.					PER CENT. OF THE SEXES.				
Males.	Fe.-males.	Total.	Per Cent. of Deaths at each Age to Deaths at All Ages.	Males.	Fe.-males.	Excess.	Males.	Fe.-males.	Total.	Per Cent. of Deaths at each Age to Deaths at All Ages.	Males.	Fe.-males.	Total.	Males.	Fe.-males.	Unk.	Excess.		
																		Males.	Fe.-males.
All Ages.....		736	1,392	100.00	47.13	52.87	5.74	469	330	1	800	100.00	53.63	41.25	.12	17.38	.....	.....
Under 5.....		51	104	7.47	50.96	49.04	1.92	147	128	1	276	34.50	53.26	46.38	.36	6.88	d	.....
5 to 10.....		15	23	1.65	34.78	65.22	.....	30 44	15	7	22	2.75	63.18	31.82	.....	36.36	.....	.....
10 to 15.....		35	47	3.38	23.53	74.47	.....	48.94	12	10	22	2.75	54.55	45.45	.....	9.10	.....	.....
15 to 20.....		71	96	6.90	26.04	73.96	.....	47.93	16	10	26	3.25	61.54	38.46	.....	23.08	.....	.....
20 to 25.....		117	184	13.23	36.41	63.59	.....	27.18	c 16	10	26	3.25	61.54	38.46	.....	23.08	.....	.....
25 to 30.....		87	157	11.28	44.58	55.41	.....	10.83	c 11	18	29	3.63	37.93	62.07	.....	24.14	.....	.....
30 to 35.....		76	131	9.41	42.74	57.25	.....	4.51	c 16	10	26	3.25	61.54	38.46	.....	23.08	.....	.....
35 to 40.....		55	101	7.26	45.54	54.46	.....	8.92	c 17	18	35	4.37	48.57	51.43	.....	2.86	.....	.....
40 to 45.....		38	81	5.83	53.09	46.91	6.18	.....	c 23	15	37	4.63	59.46	40.54	.....	18.93	.....	.....
45 to 50.....		33	76	5.46	57.59	42.41	15.78	.....	29	10	39	4.88	74.36	25.64	.....	48.72	.....	.....
50 to 55.....		28	73	5.24	61.64	38.36	23.28	.....	35	14	49	6.12	71.43	28.57	.....	42.86	.....	.....
55 to 60.....		28	71	5.10	60.56	39.44	21.12	d	c 37	21	58	6.00	56.25	43.75	.....	12.50	d	.....
60 to 65.....		19	61	4.38	63.85	36.15	27.70	.....	c 29	10	39	4.97	74.36	25.64	.....	48.72	.....	.....
65 to 70.....		32	75	5.39	57.33	42.67	14.66	d	c 25	19	44	5.50	56.83	43.18	.....	13.64	d	.....
70 to 75.....		17	48	3.45	64.58	35.42	29.16	.....	24	12	36	4.50	66.67	33.33	.....	33.34	.....	.....
75 to 80.....		20	34	2.44	41.13	58.87	17.64	.....	14	5	19	2.38	73.68	26.32	.....	47.36	.....	.....
80 and over.....		6	13	.93	53.85	46.15	7.69	d	8	7	15	1.88	53.33	46.67	.....	6.66	d	.....
Unknown.....		7	10	1.23	41.18	58.82	17.64	.....	6	6	12	1.60	50.00	50.00	.....	.....	.....	.....
Average.....		38.18	42.71	80.89	48.86	51.44	.....	27.24	19.06	.06	48.35	5.79	60.79	39.19	.02	.....	.....	.....

^a Of 17 Periods, of five years each, excluding deaths at Unknown Ages.

^b More than the average number and per cent. of deaths from consumption, and less than an average number and per cent. of deaths from pneumonia, and vice versa.

^c More than an average number of deaths of males from consumption, and less than an average number of deaths of males from pneumonia, and vice versa.

^d More than an average proportion of males from consumption, and less than an average proportion of males from pneumonia, and vice versa.

TABLE XXIV.—*Exhibiting, for the State and Eleven Geographical Divisions, in 1874, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia, from Typhoid Fever, from Intermittent Fever, and from Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea to Deaths from All Causes.*

STATE AND GEOGRAPH- ICAL DIVISIONS. ^a	SEX.	All Causes, 1874.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
STATE.....	To...	12,560	1,392	11.14	860	6.40	610	4.88	462	.50	380	3.04
	Ma...	6,665	656	9.84	469	7.04	317	4.76	24	.36	218	3.27
	Fe...	5,904	736	12.68	330	5.60	293	5.05	38	.65	162	2.70
	Unk.	31	-----	-----	1	3.23	-----	-----	-----	-----	-----	-----
Upper Penin'lar	To...	655	60	9.16	33	5.04	22	3.36	4	.61	31	4.73
	Ma...	384	28	7.29	25	6.51	12	3.13	2	.52	15	3.91
	Fe...	271	32	11.81	8	2.96	10	3.69	2	.74	16	5.90
Northwestern	To...	207	19	9.18	10	4.83	2	.97	1	.48	5	2.41
	Ma...	92	10	10.87	3	3.26	1	1.09	-----	-----	1	1.09
	Fe...	115	9	7.88	7	6.09	1	.87	1	.87	4	3.48
Northern	To...	123	9	7.32	2	1.63	2	1.63	-----	-----	3	2.44
	Ma...	71	2	2.92	1	1.41	1	1.41	-----	-----	3	4.23
	Fe...	52	7	13.46	1	1.92	1	1.92	-----	-----	-----	-----
Northeastern	To...	75	3	4.00	1	1.33	1	1.33	1	1.33	16	21.33
	Ma...	41	2	4.88	1	2.44	1	2.44	-----	-----	6	14.63
	Fe...	33	1	3.03	-----	-----	-----	-----	1	3.03	10	33.33
Western	Unk.	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	To...	1,316	120	9.08	59	4.48	69	5.24	6	.46	49	3.73
	Ma...	684	57	8.33	37	5.41	34	4.97	2	.29	26	3.80
	Fe...	627	73	11.64	22	3.51	35	5.56	4	.64	23	3.67
North'n-Central	Unk.	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	To...	186	21	11.39	13	6.99	18	9.68	2	1.08	6	3.23
	Ma...	79	9	11.39	6	7.59	8	10.13	1	1.27	2	2.53
	Fe...	106	12	11.32	7	6.60	10	9.43	1	.94	4	3.77
	Unk.	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

^a For counties included in each Division, see page 181.

^b For counties and townships from which no returns of deaths in 1874 were received, see Exhibit H, pages 149-151; for those in which no deaths occurred, see Exhibit I, page 152.

^c Includes 1 "Intestine Fever," and 1 "Typhoid Delirium."

^d Includes 2 deaths from Worm Fever, and 7 from Worm Fits.

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	All Causes, 1874.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMITTENT FEVER.		DIARRHEA.	
			Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
Bay and East'rn	To...	1,826	165	9.04	101	5.53	76	4.16	16	.88	66	3.61
	Ma...	985	83	8.43	57	5.79	45	4.57	7	.71	40	4.06
	Fe...	835	82	9.82	43	5.15	31	3.71	9	1.08	26	3.11
	Unk.	6	-----	-----	1	16.67	-----	-----	-----	-----	-----	-----
Central.....	To...	2,068	220	10.64	164	7.93	120	5.80	16	.77	24	1.16
	Ma...	1,085	91	8.31	97	8.96	67	6.12	7	.64	15	1.37
	Fe...	970	129	13.30	67	6.91	53	5.46	9	.93	9	.93
	Unk.	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Southwestern ..	To...	1,118	133	11.90	129	11.53	73	6.53	2	.18	15	1.34
	Ma...	609	69	11.33	80	13.14	34	5.58	1	.16	12	1.97
	Fe...	509	64	12.57	49	9.63	39	7.66	1	.20	3	.59
South'n-Central	To...	2,241	322	14.37	166	7.41	108	4.82	5	.22	21	.94
	Ma...	1,141	136	11.92	94	8.24	54	4.73	1	.09	16	1.40
	Fe...	1,094	186	17.00	72	6.58	54	4.94	4	.37	5	.46
	Unk.	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Southeastern...	To...	2,685	310	11.55	122	4.54	119	4.43	9	.34	144	5.36
	Ma...	1,484	169	11.38	68	4.58	60	4.04	3	.20	82	5.53
	Fe...	1,192	141	11.83	54	4.53	59	4.95	6	.50	62	5.20
	Unk.	9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

* For counties included in each Division, see page 181.

† More than an average per cent. of deaths from consumption, and less than an average per cent. of deaths from pneumonia, and vice versa. This is the case in two out of the eleven geographical divisions.

PRINCIPAL CAUSES OF DEATHS,—BY COUNTIES.

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TABLE XXV.—*Exhibiting, for the State and by Counties, for the Year 1874, the Number of Deaths returned as having occurred from All Causes, from Consumption, from Pneumonia, from Typhoid Fever, from Intermittent Fever, and from Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea to Deaths from All Causes.*

STATE AND COUNTIES.	Deaths, All Causes, 1874.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMIT. FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Num- ber of Dea's.	Per Cent. to Deaths from All Causes.
STATE	12,500	1,393	11.14	800	6.40	610	4.88	a 62	.50	380	3.04
Alcona	11	-----	-----	-----	-----	-----	-----	-----	-----	2	18.18
Allegan	311	35	11.25	35	11.25	20	6.43	-----	-----	4	1.29
Alpena..... ^b	32	1	3.13	1	3.13	1	3.13	-----	-----	13	40.63
Antrim..... ^b	33	2	6.06	-----	-----	1	3.03	-----	-----	1	3.03
Baraga	10	-----	-----	2	20.00	-----	-----	-----	-----	1	10.00
Barry	195	16	8.21	15	7.69	10	5.13	-----	-----	5	2.56
Bay	250	32	12.80	7	2.80	7	2.80	4	1.60	25	10.00
Benzie	26	3	11.54	1	3.85	1	3.85	-----	-----	2	7.69
Berrien	395	41	10.38	46	11.65	25	6.33	1	.25	8	2.03
Branch	220	37	16.82	19	8.64	8	3.64	-----	-----	-----	-----
Calhoun.....	300	44	11.33	17	5.67	16	5.33	-----	-----	6	2.00
Cass	141	17	12.06	22	15.60	11	7.80	1	.71	2	1.42
Charlevoix ..	21	5	23.81	1	4.76	-----	-----	-----	-----	1	4.76
Cheboygan ^b	24	2	8.33	1	4.17	-----	-----	-----	-----	-----	-----
Chippewa..... ^b	8	2	25.00	-----	-----	2	2.50	-----	-----	-----	-----
Clare	28	8	10.71	-----	-----	9	3.21	-----	-----	-----	-----
Clinton.....	195	29	14.87	12	6.15	17	8.72	-----	-----	3	1.54
Delta..... ^b	39	5	12.82	2	5.13	-----	-----	-----	-----	-----	-----
Eaton.....	236	26	11.02	19	8.05	9	3.81	-----	-----	-----	-----
Emmet..... ^b	31	-----	-----	-----	-----	-----	-----	-----	-----	1	3.23
Genesee.....	220	26	11.82	13	5.91	10	4.55	2	.91	1	.45
Gladwin.....	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G. Traverse ^b	35	1	2.86	1	2.86	1	2.86	-----	-----	-----	-----
Gratiot..... ^b	127	10	7.87	7	5.51	8	6.30	2	1.57	1	.79
Hillsdale....	221	35	15.84	23	10.41	13	5.88	1	.45	1	.45
Houghton....	255	17	7.56	11	4.89	11	4.89	3	1.33	17	7.56
Huron..... ^b	111	10	9.01	8	7.21	4	3.60	1	.90	5	4.50
Ingham.....	262	26	9.92	34	12.98	8	3.05	5	1.91	6	2.29
Ionia	286	23	8.04	21	7.34	19	6.64	2	.70	4	1.40
Iosco..... ^b	26	2	7.69	-----	-----	-----	-----	1	3.85	-----	-----
Isabella..... ^b	36	7	19.44	4	11.11	4	11.11	1	2.78	1	2.78
Jackson.....	277	34	12.27	10	5.78	13	4.69	-----	-----	1	.36
Kalamazoo...	331	56	16.92	36	10.88	11	3.32	-----	-----	5	1.51

^a Includes 2 deaths from Worm Fever and 7 from Worm Fits.

^b Except townships not represented by returns of deaths in 1874. See pages 149-151.

TABLE XXV.—CONTINUED.

COUNTIES.	Deaths, All Causes, 1874.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.		INTERMIT. FEVER.		DIARRHEA.	
		Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Num- ber of Dea's	Per Cent. to Deaths from All Causes.
Kalkaska.....	14	-----	-----	-----	-----	1	7.14	-----	-----	-----	-----
Kent.....	586	73	12.46	25	4.27	39	6.66	2	.34	22	3.75
Keweenaw.....	53	3	5.66	1	1.83	5	9.42	-----	-----	3	5.66
Lake.....	26	2	7.69	1	3.85	1	3.85	-----	-----	2	7.69
Lapeer.....	224	24	10.71	17	7.59	16	7.14	1	.45	3	1.34
Leelanaw.....	46	8	17.39	3	6.52	-----	-----	-----	-----	1	2.17
Lenawee.....	330	44	13.33	11	3.33	19	5.76	1	.30	1	.30
Livingston.....	188	25	13.30	20	10.64	13	6.91	-----	-----	2	1.06
Mackinac.....	16	4	25.00	1	6.25	-----	-----	-----	-----	1	6.25
Macomb.....	270	35	12.96	11	4.07	2	.74	-----	-----	2	.74
Manistee.....	70	7	10.00	2	2.86	-----	-----	1	1.43	1	1.43
Manitou.....	9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Marquette.....	254	23	9.06	15	5.91	4	1.57	1	.39	9	3.54
Mason.....	47	4	8.51	3	6.38	4	8.51	-----	-----	2	4.26
Mecosta.....	79	5	6.33	8	10.13	4	5.06	1	1.27	4	5.06
Menominee.....	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Midland.....	42	6	14.29	1	2.38	1	2.38	-----	-----	1	2.38
Missaukee.....	3	-----	-----	1	33.33	-----	-----	-----	-----	-----	-----
Monroe.....	262	25	15.43	19	11.73	18	11.11	1	.38	3	1.15
Montcalm.....	191	19	9.95	15	7.85	15	7.85	3	1.57	1	.52
Muskegon.....	170	15	8.82	6	3.53	8	4.71	1	.59	3	1.76
Newaygo.....	50	1	2.00	5	10.00	3	6.00	-----	-----	1	2.00
Oakland.....	285	37	12.98	19	6.67	11	3.86	2	.70	2	.70
Oceana.....	89	4	4.49	4	4.49	1	1.12	1	1.12	1	1.12
Ontonagon.....	28	4	14.29	1	3.57	-----	-----	-----	-----	-----	-----
Osceola.....	50	3	6.00	3	6.00	3	6.00	-----	-----	4	8.00
Ottawa.....	298	28	9.40	12	4.03	10	3.36	2	.67	14	4.70
Presque Isle.....	6	-----	-----	-----	-----	-----	-----	-----	-----	1	16.67
Saginaw.....	568	35	6.16	25	4.40	21	3.70	4	.70	14	2.46
Sanilac.....	160	13	8.13	16	10.00	7	4.38	2	1.25	5	3.13
Schoolcraft.....	20	2	10.00	-----	-----	-----	-----	-----	-----	-----	-----
Shiawassee.....	168	20	11.90	8	4.76	11	6.55	2	1.19	1	.60
St. Clair.....	355	37	10.42	19	5.35	17	4.79	4	1.13	14	3.94
St. Joseph.....	207	30	14.49	20	9.66	8	3.86	-----	-----	6	2.90
Tuscola.....	158	14	8.86	9	5.70	4	2.53	-----	-----	-----	-----
Van Buren.....	271	40	14.76	26	9.59	17	6.27	-----	-----	1	.37
Washtenaw.....	355	42	18.13	24	6.76	20	5.63	3	.85	1	.28
Wayne.....	1,968	213	11.40	73	3.96	88	4.71	6	.32	137	7.33
Wexford.....	18	-----	-----	2	11.11	-----	-----	-----	-----	1	5.56

* Except townships not represented by returns of deaths in 1874. See pages 149-151.

TABLE XXVI.—*Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5, and the Number of Inhabitants under 5 years of Age; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5 to Deaths at All Ages, and the Per Cent. of Inhabitants Aged under 5 years to Inhabitants at All Ages, for the Year 1874.*

STATE AND GEOGRAPHICAL DIVISIONS. ^a	SEX.	Deaths at All Ages, 1874.	OLD AGE.		AGED 70 AND OVER.		DECEDENTS AGED UNDER 5.		INHABITANTS IN 1874 AGED UNDER 5. ^b	
			Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Inhab- itants.	Per Ct. to Inhabit- ants at All Ages, by Geographical Divisions.
STATE	Total.....	12,500	428	3.42	1,390	11.12	5,138	41.10	178,875	13.61
	Males.....	6,663	195	2.93	771	11.56	2,828	42.43	90,887	13.24
	Females..	5,804	233	4.01	618	10.65	2,280	39.28	87,988	14.01
	Unknown	31	—	—	1	3.22	30	96.77	—	—
Upper-Peninsular	Total.....	655	11	1.68	19	2.90	379	57.86	9,519	15.83
	Males.....	384	8	2.08	13	3.91	212	55.21	4,920	13.93
	Females..	271	3	1.11	4	1.48	167	61.63	4,599	18.53
Northwestern.....	Total.....	207	9	4.35	18	8.70	110	53.14	3,516	15.03
	Males.....	92	4	4.35	10	10.87	48	52.17	1,762	13.68
	Females..	115	5	4.35	8	6.96	62	53.91	1,754	16.68
Northern	Total.....	123	2	1.63	2	1.62	70	56.91	1,647	16.56
	Males.....	71	2	2.82	2	2.82	44	61.97	841	15.39
	Females..	52	—	—	—	—	26	50.00	806	17.98
Northeastern.....	Total.....	75	2	2.67	3	4.00	40	53.33	1,448	15.10
	Males.....	41	1	2.44	2	4.88	17	41.46	721	12.73
	Females..	33	1	3.03	1	3.03	22	66.66	727	18.51
	Unknown	1	—	—	—	—	1	100.00	—	—
Western	Total.....	1,316	39	2.96	114	8.66	646	41.49	19,718	14.21
	Males.....	684	14	2.05	63	9.21	350	51.17	10,108	13.66
	Females..	627	25	3.99	51	8.13	291	46.41	9,610	14.83
	Unknown	5	—	—	—	—	5	100.00	—	—
Northern-Central	Total.....	186	7	3.76	15	8.06	106	56.99	2,941	15.22
	Males.....	79	4	5.06	8	10.13	45	56.96	1,483	14.22
	Females..	106	3	2.85	7	6.60	60	56.60	1,458	16.41
	Unknown	1	—	—	—	—	1	100.00	—	—

^a For counties included in each Division, see page 181.

^b For counties and townships from which no returns of deaths in 1874 were received, see Exhibit H, pages 149-151; for those in which no deaths occurred, see Exhibit I, page 152.

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths at All Ages, 1874.	OLD AGE.		AGED 70 AND OVER.		DECEDENTS AGED UNDER 5.		INHABITANTS IN 1874 AGED UNDER 5.*	
			Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Deaths.	Per Ct. to Deaths at All Ages, by Geographical Di- visions.	Number of Inhab- itants.	Per Ct. to Inhabit- ants at All Ages, by Geographical Divisions.
Bay and Eastern.	Total.....	1,826	40	2.19	195	10.68	817	44.74	27,360	15.02
	Males.....	985	22	2.23	105	10.66	467	47.41	13,806	14.25
	Females..	835	18	2.16	90	10.78	344	41.20	13,554	15.90
	Unknown	6	—	—	—	—	6	100.00	—	—
Central	Total.....	2,068	77	3.72	236	11.41	783	37.86	31,378	13.13
	Males.....	1,095	33	3.01	123	11.23	455	41.55	15,952	12.85
	Females..	970	44	4.54	113	11.65	325	33.51	15,426	13.43
	Unknown	3	—	—	—	—	3	100.00	—	—
Southwestern....	Total.....	1,118	31	2.77	135	12.07	406	36.31	14,902	12.73
	Males.....	609	9	1.47	75	12.32	223	36.62	7,484	12.36
	Females..	509	22	4.32	60	11.79	183	35.95	7,418	13.12
Southern-Central	Total.....	2,241	94	4.19	356	15.89	679	30.30	32,018	11.69
	Males.....	1,141	41	3.59	194	17.00	355	31.11	16,383	11.01
	Females..	1,094	53	4.84	162	14.81	318	29.07	15,635	11.65
	Unknown	6	—	—	—	—	6	100.00	—	—
Southeastern	Total.....	2,685	116	4.32	297	11.06	1,102	41.43	34,428	14.26
	Males.....	1,484	57	3.84	174	11.72	612	41.26	17,427	14.35
	Females..	1,192	59	4.95	122	10.23	482	40.44	17,001	14.17
	Unknown	9	—	—	1	11.11	8	88.88	—	—

* For counties included in each Division, see page 181.

TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5, in 1874; the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages; also the Inhabitants in 1874 Aged Under 5 Years, and Per Cent. to Inhabitants at All Ages.*

STATE AND COUNTIES.	AVERAGE AGE OF INHABITANTS, JUNE 1, 1870.		ALL AGES. No. of Deaths, 1874.	OLD AGE.		AGED 70 AND OVER.		DECEDENTS AGED UNDER 5.		INHABITANTS IN 1874, AGED UNDER 5. ^a	
	Males.	Fe- males.		No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Inhabit- ants.	Per Ct. to Inhabit- ants at All Ages.
State.....	24.91	23.68	12,500	428	3.42	1,320	11.12	5,138	41.10	178,875	13.61
Alcona.....	23.26	20.65	11	—	—	—	—	7	63.04	207	17.05
Allegan.....	24.11	23.26	311	13	4.18	32	10.29	120	38.58	4,227	12.05
Alpena..... ^a	23.46	21.04	32	2	6.25	2	6.25	20	62.50	710	15.12
Antrim..... ^a	23.29	21.84	33	1	3.03	2	6.06	18	54.54	522	17.39
Baraga..... ^b	—	—	10	—	—	—	—	5	50.00	—	—
Barry.....	24.74	23.56	195	7	3.59	25	12.82	67	34.36	2,956	13.41
Bay..... ^a	23.42	21.12	250	4	1.60	13	5.20	135	54.00	3,552	14.41
Benzie.....	25.84	22.28	26	—	—	—	—	15	57.69	347	12.08
Berrien.....	24.71	23.26	395	9	2.28	44	11.14	141	35.70	4,498	12.83
Branch.....	26.67	25.58	220	7	3.18	29	13.18	70	31.82	2,806	10.91
Calhoun.....	26.42	25.48	300	8	2.67	57	19.00	80	26.67	4,061	11.39
Cass.....	24.93	24.06	141	4	2.84	25	17.73	41	29.06	2,675	13.03
Charlevoix.....	23.25	21.20	21	—	—	—	—	9	42.86	384	16.27
Cheboygan..... ^a	22.37	20.62	24	—	—	—	—	18	75.00	406	16.85
Chippewa..... ^a	23.35	23.17	8	—	—	—	—	5	62.50	213	13.17
Clare.....	27.50	21.96	28	1	3.57	1	3.57	12	42.86	199	14.70
Clinton.....	24.59	23.48	195	11	5.64	24	12.31	69	35.38	3,294	12.92
Delta..... ^a	24.45	18.27	39	—	—	3	7.69	23	58.97	599	14.05
Eaton.....	25.43	24.05	236	10	4.23	22	9.32	87	36.86	3,422	12.72
Emmet..... ^a	23.33	24.00	31	1	3.23	—	—	14	45.16	109	12.06
Genesee.....	25.72	24.55	220	6	2.73	28	12.73	71	32.27	4,330	12.53
Gladwin.....	—	—	1	—	—	—	—	—	—	44	16.60
Gr. Traverse..... ^a	23.54	21.93	35	2	5.71	4	11.43	20	57.14	669	14.11
Gratiot..... ^a	23.35	21.92	127	5	3.94	11	8.66	61	48.03	2,067	15.28
Hillsdale.....	26.51	25.29	221	8	3.62	49	22.17	45	20.36	3,489	11.02
Houghton..... ^b	21.64	19.34	225	2	.99	4	1.78	144	64.00	3,223	16.94
Huron..... ^a	22.49	20.21	111	2	1.80	4	3.60	58	52.23	1,840	17.66
Ingham.....	25.09	24.38	262	10	3.82	33	12.59	100	38.17	3,563	12.27
Ionia.....	25.16	24.07	226	10	3.50	33	13.29	106	37.06	3,637	12.89
Iosco.....	23.99	21.09	26	—	—	1	3.85	9	34.62	531	14.43
Isabella..... ^a	23.39	20.49	36	2	5.56	5	13.89	19	52.78	649	14.32
Jackson.....	26.71	24.99	277	10	3.61	27	9.75	114	44.77	4,576	12.05
Kalamazoo.....	25.94	25.10	331	11	3.32	50	15.11	118	35.63	3,965	11.97
Kalkaska.....	24.38	18.83	14	—	—	—	—	11	78.57	224	17.79
Kent.....	25.32	24.00	586	20	3.41	51	8.53	269	45.90	8,069	12.88
Keweenaw.....	21.98	19.03	53	1	1.89	1	1.89	22	41.51	890	16.44

^a Except of counties and townships not represented by returns of deaths, for which see Exhibit H, pages 149-151. The statement of Average Age is of all inhabitants of the State.

^b Population of Baraga county is included in statement of population of Houghton county, and cannot be ascertained.

TABLE XXVII.—CONTINUED.

COUNTIES.	AVERAGE AGE OF INHABITANTS, JUNE 1, 1870.		ALL AGES. No. of Deaths, 1874.	OLD AGE.		AGED 70 AND OVER.		DECEDENTS AGED UNDER 5.		INHABITANTS IN 1874, AGED UNDER 5. *	
	Males.	Fe- males.		No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Deaths.	Per Ct. to Deaths at All Ages.	No. of Inhabit- ants.	Per Ct. to Inhabit- ants at All Ages.
Lake.....	24.01	20.68	26			1	3.85	16	61.54	262	14.45
Lapeer.....	24.57	23.10	224	7	3.13	19	8.48	86	38.39	3,569	14.20
Leelanaw....	23.40	21.64	46	1	2.17	3	6.52	17	36.95	795	15.80
Lenawee.....	27.03	26.15	330	21	6.36	62	18.79	104	31.51	5,496	11.93
Livingston...	26.01	24.93	188	8	4.26	28	14.89	64	34.04	2,581	12.70
Mackinac... ^a	22.94	21.63	16	1	6.25	2	12.50	4	25.00	119	17.05
Macomb.....	25.31	24.35	270	9	3.33	29	10.74	93	34.44	4,046	14.29
Manistee.... ^a	23.55	20.87	70	3	4.29	5	7.14	44	62.86	1,320	16.01
Manitou.... ^a	22.49	20.13	9	2	22.22	3	3.33			46	13.49
Marquette... ^a	23.04	20.00	254	5	1.97	5	1.97	148	58.27	3,563	16.26
Mason..... ^a	24.27	21.27	47	1	2.13	4	8.51	23	48.94	641	15.85
Mecosta.....	23.86	20.97	79	3	3.80	6	7.59	48	60.76	1,449	15.87
Menominee...	23.79	19.42	2					1	50.00	408	11.69
Midland..... ^a	24.14	21.58	42	1	2.38	3	7.14	27	64.29	600	14.33
Missaukee... ^a	26.05	21.70	3			1	33.33	2	66.66	81	13.37
Monroe.....	24.12	23.28	262	13	5.02	32	1.97	98	60.49	4,507	14.97
Montcalm... ^a	23.64	22.45	191	3	1.57	11	5.76	90	47.12	2,527	13.56
Muskegon... ^a	24.09	22.00	170	5	2.94	18	10.59	85	50.00	2,700	14.37
Newaygo... ^a	23.51	21.50	50	2	4.00	8	16.00	24	48.00	1,177	15.53
Oakland.....	26.57	25.81	235	17	5.96	53	18.60	85	29.82	4,331	11.37
Oceana..... ^a	24.03	22.57	89	3	3.37	7	7.87	54	60.67	1,214	15.35
Ontonagon... ^a	21.07	19.25	28			2	7.14	15	53.57	320	12.30
Osceola..... ^a	23.27	20.52	50			2	4.00	27	54.00	946	15.43
Ottawa.....	23.25	22.19	298	8	2.68	24	8.05	148	49.66	4,709	15.73
Presque Isle. ^a	25.13	19.38	6					4	66.66		
Saginaw..... ^a	23.81	21.62	568	3	.53	85	14.96	258	45.42	6,784	14.16
Sanilac.....	22.30	20.62	160	4	2.50	16	10.00	67	41.88	2,613	17.27
Schoolcraft..	24.07	19.49	20	2	10.00	2	10.00	12	60.00	184	14.26
Shiawassee...	24.69	23.67	163	7	4.17	16	9.52	68	40.47	2,971	12.65
St. Clair.....	23.61	22.28	355	16	4.51	38	10.70	154	43.38	6,220	15.29
St. Joseph...	25.85	24.75	207	8	3.86	26	12.56	53	25.60	3,116	12.03
Tuscola.....	23.53	21.99	158	4	2.53	20	12.66	59	37.34	2,592	15.19
Van Buren... ^a	25.24	23.90	271	5	1.85	34	12.55	104	38.38	3,507	12.03
Washtenaw...	26.36	25.92	355	21	5.92	56	15.77	95	26.76	4,618	11.93
Wayne.....	24.37	23.54	1,868	77	4.12	183	9.80	626	44.22	21,544	14.87
Wexford... ^a	24.66	22.07	18	1	5.56	2	11.11	12	66.67	268	14.62

* Except of counties and townships not represented by returns of deaths, for which see Exhibit H, pages 149-151. The statement of Average Age is of all inhabitants of the State.

20	33	51	44	60	46	39	57	48	59	40	64	2	589	Total.....	Specified Occupations, Males. (Classes I-XI.)	{	53	6	18	61	60	69	41	42	38	41	42	45	28	11	6		
30	19	31	21	40	32	23	26	23	31	26	34	1	327	Married...																			
9	10	20	18	26	10	14	26	20	21	9	26	1	210	Single.....	{	53	4	6	18	34	18	31	31	35	35	34	31	34	19	4	3	4	
6	5	4	2	4	2	4	3	5	7	3	4	...	45	Widowed..																			
1	...	1	1	2	2	7	Unknown..	{
12	16	26	13	34	23	21	17	15	25	15	16	1	234	Total.....																			
7	10	15	10	21	17	12	12	11	16	12	9	1	153	Married...	{
4	1	8	2	10	5	7	2	...	4	2	5	...	60	Single.....																			
...	5	3	1	2	1	2	3	4	5	1	2	...	29	Widowed..	{
1	...	...	1	...	...	...	...	...	...	...	...	...	2	Unknown..								
1	2	5	2	3	4	1	2	2	2	3	2	...	29	Total.....	{
1	...	4	1	2	2	1	1	2	...	1	...	...	15	Married...																	
...	2	1	1	1	1	1	...	7	Single.....	{
...	...	...	...	...	2	...	...	...	2	1	1	...	6	Widowed..												
...	1	1	Unknown..	{
...	...	...	...	...	...	...	...	...	...	...	...	...	29	Total.....							
5	2	3	2	7	1	1	7	...	6	6	12	...	52	Total.....	{
4	2	1	...	6	...	1	3	...	4	4	8	...	33	Married...																			
1	...	2	2	1	1	...	3	...	2	1	3	...	16	Single.....	{
...	...	...	...	...	...	...	...	...	...	1	1	...	2	Widowed..										
...	1	1	...	2	Widowed..	{
...	...	...	...	...	...	...	...	...	...	...	...	...	1	Unknown..							
...	20	Total.....	{
1	...	2	...	4	1	...	2	2	...	3	5	...	14	Married...																			
...	6	Single.....	{
4	6	7	10	8	8	5	13	5	8	7	12	...	93	Total.....																			
2	2	6	5	3	7	4	4	2	5	4	5	...	49	Married...	{
2	3	...	4	5	1	1	8	3	3	3	7	...	40	Single.....																			
...	1	1	1	3	Widowed..	{
...	...	...	...	...	...	...	...	...	...	...	...	...	1	Unknown..							

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506
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CLASS X.																					
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CLASS XI.		53	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Paupers.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total		72	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Unemployed.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total		69	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Widowed.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total		574	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CLASS XII. (Females.)		51	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Boarders.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carpenters.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

[illegible]

EXHIBIT Q.—*The Average Age of the Inhabitants of Michigan, of both sexes, of each sex, and the difference between the sexes, for All Living, June 1, 1870, and all returned as having Died during the Year ending June 1, 1870, as Compiled from the U. S. Census of that date; for all returned as having Died from Consumption during the Years 1870, 1872, 1873, and 1874; for all returned as having Died from All Causes during the Years 1870 to 1874, inclusive, as shown by the Registration Returns; for All Living Aged Twenty and Over, as per Census, June 1, 1870; for All Aged Twenty and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 to 1874, inclusive, and for the Native and Foreign-born Inhabitants returned as having died during the Years 1873 and 1874.*

	YEAR ENDING:	AVERAGE AGE IN YEARS AND HUNDRETHS OF A YEAR.			
		Total.	Males.	Fe- males.	Excess, Males.
Deaths, as per Census.....	June 1, 1870.	24.79	25.17	24.39	.78
Living, as per Census.....	June 1, 1870.	24.83	24.91	23.68	1.23
Deaths, as shown by Registration Returns	Dec. 31, 1870.	23.50	24.05	22.89	1.16
Deaths from Consumption by Registration Returns...	Dec. 31, 1870.	34.95	36.89	33.14	3.75
All living aged 20 and over, per Census.....	June 1, 1870.	38.23	38.61	37.80	.81
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	Dec. 31, 1870.	51.01	52.45	48.96	6.49
Deaths as shown by Registration Returns.....	Dec. 31, 1871.	25.63	26.78	24.50	2.28
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	Dec. 31, 1871.	51.44	52.79	46.45	6.34
Deaths as shown by Registration Returns.....	Dec. 31, 1872.	24.17	25.09	23.17	1.92
Deaths from Consumption by Registration Returns...	Dec. 31, 1872.	35.05	39.10	31.19	7.91
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	Dec. 31, 1872.	50.73	51.90	47.08	4.82
All who died aged 20 years and over as shown by Reg- istration Returns.....	Dec. 31, 1872.	49.72	51.67	47.42	4.25
"Average years of life" after the age of 20 years, as shown by Table VII, page 197, Report of 1872, plus 20 years,—indicating the "Average Age at Death" of all who died aged 20 years and over according to that Life Table.....	Dec. 31, 1870.	-----	63.73	62.02	1.70
Deaths as shown by Registration Returns.....	Dec. 31, 1873.	31.30	31.95	30.14	1.81
Deaths of Native-born Inhabitants as shown by Reg- istration Returns.....	Dec. 31, 1873.	27.25	27.76	26.71	1.05
Deaths of Foreign-born Inhabitants as shown by Reg- istration Returns.....	Dec. 31, 1873.	43.67	40.68	42.85	-1.67
Deaths from Consumption by Registration Returns...	Dec. 31, 1873.	37.81	40.20	35.77	4.43
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	Dec. 31, 1873.	50.17	56.51	48.27	8.24
All who died aged 20 years and over, as shown by Registration Returns.....	Dec. 31, 1873.	49.67	51.48	47.66	3.82
Deaths as shown by Registration Returns.....	Dec. 31, 1874.	25.33	25.78	24.09	.68
Deaths of Native-born Inhabitants as shown by Reg- istration Returns.....	Dec. 31, 1874.	30.26	23.99	20.25	3.74
Deaths of Foreign-born Inhabitants as shown by Reg- istration Returns.....	Dec. 31, 1874.	47.15	47.99	46.13	1.86
Deaths from Consumption by Registration Returns...	Dec. 31, 1874.	36.48	39.90	33.44	6.46
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....	Dec. 31, 1874.	50.96	53.07	48.23	4.84
All who died aged 20 years and over as shown by Reg- istration Returns.....	Dec. 31, 1874.	50.89	52.84	48.73	4.12

Exhibit Q contains many items of interest to one who will give it careful study. The State is new, and its inhabitants do not include as large a proportion of old people as do those of older States. The average age at death is therefore not as much as might otherwise be expected. It may be seen that for the year 1873 the average age seems to have been greater than in other

years. Perhaps this was due to the excessively cold weather in the winter of 1872-3, which was fatal to a larger proportion of old than of middle aged or young people.

Table XXIX. contains data bearing upon the subject of the influence of occupation upon the death-rate. According to this table, business men live the longest, the average age of those who died in Michigan in 1874, aged over 20 years, being 66.42 years. Next to this class in longevity of life came the cultivators of the earth, whose average age was 57.32 years. The shortest-lived were those classified as Active Mechanics Abroad—Class II.—whose average age was only 41.92 years. The particular occupations of people included in this class may be seen by examining the table.

TABLE XXIV.—Exhibiting, by Classified Occupations, the Number of Decedents returned for 1874 Aged Twenty Years and Over, whose Occupations and Ages were returned, with the Aggregate and Average Ages, One-half of a Year added to Age of each Person, in place of Months and Days Excluded.

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
	ALL SPECIFIED OCCUPATIONS.....	4,691	239,163.50	50.98
I.	CULTIVATORS OF THE EARTH.....	1,455	83,400.00	57.32
II.	ACTIVE MECHANICS ABROAD.....	159	7,664.50	41.92
III.	ACTIVE MECHANICS IN SHOPS.....	190	8,881.50	46.74
IV.	INACTIVE MECHANICS IN SHOPS.....	87	4,260.50	48.97
V.	LABORERS—NO SPECIAL TRADES.....	405	17,155.50	42.39
VI.	AGENTS, LABORERS ABROAD, ETC.....	84	3,987.00	46.27
VII.	SEAFARING MEN.....	32	1,354.00	42.31
VIII.	SOLDIERS.....			
IX.	BUSINESS MEN.....	123	8,103.00	66.42
X.	PROFESSIONAL MEN.....	74	3,692.00	49.54
XI.	UNEMPLOYED.....	58	3,186.00	54.93
XII.	FEMALES.....	2,025	97,671.50	48.23
I.	CULTIVATORS OF THE EARTH.....	1,455	83,400.00	57.32
	Farmers.....	1,420	81,645.00	57.49
	Farm Laborers.....	19	724.50	38.13
	Fruit Growers.....	2	126.00	63.00
	Gardeners.....	12	750.00	62.50
	Horticulturists.....	1	75.50	75.50
	Retired Farmers.....	1	79.50	79.50
II.	ACTIVE MECHANICS ABROAD.....	159	7,664.50	41.92
	Carpenters.....	100	4,755.00	47.55
	Carpenters and Joiners.....	1	73.50	73.50
	Joiners.....	4	229.00	57.25

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
1f.	ACTIVE MECHANICS ABROAD—(Continued).			
	Masons	23	1,447.00	51.68
	Painters	17	608.50	35.79
	Pavers	1	46.50	46.50
	Ship-carpenters	1	66.50	66.50
	Shipwrights	1	41.50	41.50
	Stone-masons	6	394.00	65.67
III.	ACTIVE MECHANICS IN SHOPS.....	190	8,881.50	46.74
	Bakers	5	290.50	58.10
	Basket-makers	2	140.00	70.00
	Blacksmiths	39	2,042.50	52.37
	Brewers	3	119.50	39.83
	Brick-makers	1	82.50	82.50
	Brick-moulders	1	30.50	30.50
	Broom-makers	2	144.00	72.00
	Brush-makers	1	72.50	72.50
	Cabinet-makers	8	506.00	63.25
	Car Builders	1	41.50	41.50
	Corders	1	30.50	30.50
	Carriage-makers	2	72.50	36.25
	Carriage Painters	1	24.50	24.50
	Cloth Dyers	1	74.50	74.50
	Cooks	1	48.50	48.50
	Coopers	21	104.50	47.83
	Curriers	1	79.50	79.50
	Employes of Gas Co.	1	50.50	50.50
	Engineers	9	353.50	39.28
	Founders	1	42.50	42.50
	Foundrymen	1	76.50	76.50
	Furniture Manufacturers	1	45.50	45.50
	Gunsmiths	3	149.50	49.83
	Machinists	4	222.00	57.00
	Marble-cutters	2	67.00	33.50
	Mechanics	13	640.50	49.27
	Millers	13	634.50	48.81
	Millwrights	2	131.00	65.50
	Moulders	7	264.50	37.79

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Pattern-makers	2	143.00	71.50
	Puddlers	1	70.50	70.50
	Pump-makers	1	30.50	30.50
	Salt-boilers	1	48.50	48.50
	Sawyers	7	378.50	54.07
	Smelters	1	34.50	34.50
	Soap-makers	1	69.50	69.50
	Spectacle-makers	1	20.50	20.50
	Tanners	2	116.00	58.00
	Tinners	3	102.50	34.17
	Turners	1	64.50	64.50
	Upholsterers	2	48.00	24.00
	Wagon-makers	12	707.00	58.92
	Weavers	3	222.50	74.17
	Wheelwrights	2	100.00	50.00
	Whip-sawyers	1	84.50	84.50
	Wood Turners	1	51.50	51.50
IV.	INACTIVE MECHANICS IN SHOPS.....	87	4,290.50	48.97
	Barbers	8	290.00	35.00
	Cigar-makers	3	138.50	46.17
	Harness-makers	3	104.50	34.83
	Jewelers	3	132.50	44.17
	Printers	4	130.00	32.50
	Seamsters	1	24.50	24.50
	Shoemakers	37	2,018.50	54.55
	Tailors	22	1,247.00	56.68
	Telegraphers	3	84.50	28.17
	Tobacconists	2	74.00	37.00
	Tobacco Merchants	1	26.50	26.50
V.	LABORERS—NO SPECIAL TRADES.....	405	17,168.50	42.39
	"Detroit Dry Dock Co."	1	46.50	46.50
	Ditchers	1	79.50	79.50
	House-keepers	2	89.00	44.50
	Janitors	1	68.50	68.50
	Laborers	349	15,128.50	43.35

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
V.	LABORERS—NO SPECIAL TRADES—(Continued.)			
	Loggers.....	1	44.50	44.50
	"Mill Hand".....	2	72.00	36.00
	"Mill Men".....	1	47.50	47.50
	Miners.....	37	1,483.50	39.74
	Plumbers.....	2	112.00	56.00
	Porters.....	2	47.00	23.50
	Raftsmen.....	1	42.50	42.50
	"Saw-mill".....	1	31.50	31.50
	Sexton at Cemetery.....	1	43.50	43.50
	Street-sprinklers.....	1	54.50	54.50
	Wood-choppers.....	2	62.00	31.00
VI.	AGENTS, LABORERS ABROAD, ETC.....	84	3,987.00	46.27
	Agents.....	1	31.50	31.50
	Agents for Musical Instruments.....	1	27.50	27.50
	Baggagemen.....	1	56.50	56.50
	Brakemen.....	3	79.50	26.50
	Butchers.....	9	417.50	46.39
	Caterers.....	1	59.50	59.50
	Commercial Agents.....	4	183.00	45.75
	Conductors.....	2	86.00	43.00
	Constables.....	3	158.50	52.83
	Draymen.....	3	173.50	57.83
	Express Messengers.....	1	36.50	36.50
	Firemen on R. R.....	1	22.50	22.50
	Foremen in Saw-mill.....	1	43.50	43.50
	Freight Agents.....	1	26.50	26.50
	Fruit Agents.....	1	28.50	28.50
	General Traffickers.....	1	38.50	38.50
	Hostlers.....	1	37.50	37.50
	Hunters.....	2	90.00	45.00
	Livery Business.....	2	70.00	35.00
	Lumbermen.....	19	921.50	48.50
	Lumber Scalpers.....	1	53.50	53.50
	Mall Agents.....	1	46.50	46.50
	Milk Dealers.....	1	60.50	60.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	NUMBER OF PERSONS.	AGE IN YEARS.	
			Aggregate.	Average.
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Milk Peddlers.....	1	59.50	59.50
	Peddlers.....	5	231.50	46.30
	R. R. Agents.....	2	78.00	39.00
	R. R. Conductors.....	2	83.00	41.50
	R. R. Engineers.....	1	60.50	60.50
	Rail Straighteners.....	1	38.50	38.50
	Teamsters.....	9	422.50	46.94
	Trappers.....	1	104.50	104.50
	Watchmen on R. R.....	1	59.50	59.50
VII.	SEAFARING MEN.....	22	1,354.00	42.31
	Captains.....	3	180.50	60.17
	Fishermen.....	4	126.00	31.50
	Lake Captains.....	2	85.00	42.50
	Mariners.....	1	55.50	55.50
	Sailors.....	22	897.00	40.77
VIII.	SOLDIERS.....			
IX.	BUSINESS MEN.....	122	8,103.00	66.42
	Accountants.....	1	39.50	39.50
	Bankers.....	2	95.00	47.50
	Boarding-house keepers.....	2	102.00	51.00
	Book-keepers.....	11	397.50	36.14
	Boot and Shoe Merchants.....	1	60.50	60.50
	Brokers.....	1	77.50	77.50
	Builders.....	1	33.50	33.50
	Cashiers.....	2	108.00	54.00
	City Treasurers.....	1	49.50	49.50
	Clerks.....	16	495.00	30.94
	Clothiers.....	2	72.00	36.00
	Commission Merchants.....	1	42.50	42.50
	Custom-house Officers.....	1	57.50	57.50
	Dealers.....	1	47.50	47.50
	Dealers in Stone and Sand.....	1	40.50	40.50
	Druggists.....	6	253.00	42.17
	Dry Goods Merchants.....	1	65.50	65.50
	Dry Goods Salesmen.....	2	91.00	45.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	NUMBER OF PERSONS.	AGE IN YEARS.	
			Aggregate.	Average.
IX.	BUSINESS MEN—(Continued.)			
	Express Agents.....	1	43.50	43.50
	Grocers.....	13	613.50	47.19
	Hatters.....	2	80.00	40.00
	Hotel-keepers.....	12	637.00	53.08
	Insurance Agents.....	4	244.00	61.00
	Justices of the Peace.....	2	123.00	61.50
	Land Agents.....	1	50.50	50.50
	Land Owners.....	1	57.50	57.50
	Liquor Dealers.....	1	32.50	32.50
	Lumber Inspectors.....	1	36.50	36.50
	Lumber Merchants.....	1	74.50	74.50
	Manufacturers.....	1	24.50	24.50
	Merchants.....	41	2,147.50	52.38
	Money-lenders.....	3	196.50	65.50
	Photographers.....	1	44.50	44.50
	"Picture Frames".....	1	47.50	47.50
	Postmasters.....	1	50.50	50.50
	Postoffice Clerks.....	1	64.50	64.50
	R. R. Clerks.....	1	29.50	29.50
	Real Estate.....	1	70.50	70.50
	Restaurant-keepers.....	1	40.50	40.50
	Salesmen.....	3	115.50	38.50
	Saloon-keepers.....	17	772.50	45.44
	Secretary of Gas Co.....	1	53.50	53.50
	Stock-buyers.....	1	61.50	61.50
	Store-keepers.....	1	37.50	37.50
	Supt. of Gas Works.....	1	54.50	54.50
	Undertakers.....	1	25.50	25.50
	Wood Dealers.....	2	73.00	36.50
	Wool Dealers.....	1	47.50	47.50
X.	PROFESSIONAL MEN.....	74	3,092.00	41.84
	Architects.....	1	65.50	65.50
	Artists.....	1	50.50	50.50
	Attorneys.....	1	40.50	40.50
	Chemists.....	1	24.50	24.50
	Civil Engineers.....	1	25.50	25.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
X.	PROFESSIONAL MEN—(Continued.)			
	Dentists	3	133.50	44.17
	Draughtsmen	1	30.50	30.50
	Editors	2	69.00	34.50
	Interpreters	1	50.50	50.50
	Judges	1	67.50	67.50
	Lake Surveyors	1	61.50	61.50
	Law Students	1	25.50	25.50
	Lawyers	8	447.00	55.88
	Ministers	11	630.50	57.32
	Music Teachers	1	63.50	63.50
	Physicians	23	1,202.50	52.28
	Physicians and Surgeons	1	69.50	69.50
	Professors in Colleges	1	31.50	31.50
	Professors	1	57.50	57.50
	Stenographers	1	29.50	29.50
	Students	4	88.00	22.00
	Surveyors	2	115.00	57.50
	Teachers	5	197.50	39.50
	Writers for Papers	1	74.50	74.50
XI.	UNEMPLOYED	58	3,186.00	54.93
	Cripples	1	45.50	45.50
	"Gentlemen"	3	202.50	67.50
	Invalids	1	26.50	26.50
	Paupers	3	179.50	59.83
	Pensioners	1	46.50	46.50
	Retired	3	223.50	74.50
	Travelers	2	66.00	33.00
	Unemployed	44	2,396.00	54.45
XII.	FEMALES	2,025	97,671.50	48.23
	Baggagemen on R. R.	1	24.50	24.50
	Barbers' Wives	1	24.50	24.50
	Blacksmiths	1	36.50	36.50
	Blacksmiths' Wives	1	56.50	56.50
	Book-keepers	1	35.50	35.50
	Boarders	1	53.50	53.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	“Boarding-house”	1	44.50	44.50
	Brass-founders' Wives.....	1	31.50	31.50
	Butchers' Wives.....	1	57.50	57.50
	Carpenters.....	1	43.50	43.50
	Carpenters' Wives.....	3	163.50	54.50
	Cooks.....	1	32.50	32.50
	Coopers' Wives.....	1	83.50	83.50
	Domestics.....	21	867.50	41.31
	Dress-makers.....	14	452.00	32.29
	Druggists' Wives.....	1	77.50	77.50
	Farmers.....	140	7,541.00	53.86
	Farmers' Daughters.....	4	92.00	23.00
	Farmers' Wives.....	153	7,546.00	49.64
	Governesses.....	1	69.50	69.50
	Gunsmiths' Wives.....	1	95.50	95.50
	Hair-dressers.....	1	30.50	30.50
	Hotel-keepers.....	1	48.50	48.50
	House-keepers.....	1,170	56,420.00	48.22
	House-keepers and Weavers.....	1	70.50	70.50
	House-maids.....	1	20.50	20.50
	House-servants.....	8	102.50	34.17
	House-wives.....	176	8,019.00	45.58
	House-workers.....	54	2,470.00	45.74
	Laborers.....	21	1,189.50	56.64
	Laborers' Wives.....	4	227.00	56.75
	Landladies.....	2	81.00	40.50
	Laundresses.....	4	181.00	45.25
	Lawyers' Wives.....	1	69.50	69.50
	“Lived with her Son”.....	1	84.50	84.50
	Masons' Wives.....	1	32.50	32.50
	Matrons.....	8	267.00	45.88
	Mechanics.....	1	59.50	59.50
	Milliners.....	12	441.00	36.75
	Milk Peddlers.....	1	58.50	58.50
	Ministers' Wives.....	1	76.50	76.50
	Moulders' Wives.....	1	30.50	30.50

TABLE XXIX.—CONTINUED.—*Occupations of Decedents in 1874.*

CLASS.	OCCUPATIONS,—1874.	Number of Persons.	AGE IN YEARS.	
			Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	Music Teachers.....	2	66.00	33.00
	Nurses	3	169.50	56.50
	Paupers	2	102.00	51.00
	Physicians	1	56.50	56.50
	Physicians' Wives.....	1	49.50	49.50
	Printers	1	20.50	20.50
	Prostitutes	2	41.00	20.50
	Retired.....	2	126.00	63.00
	Seamstresses.....	11	364.50	33.14
	Servants.....	7	208.50	29.79
	Speculators' Wives.....	1	26.50	26.50
	Spinsters	1	22.50	22.50
	Stone-cutters' Wives.....	1	66.50	66.50
	Tailloresses	8	426.00	53.25
	Tailors' Wives.....	1	51.50	51.50
	Teachers	34	923.00	27.15
	Unemployed	116	6,576.00	56.69
	Weavers	8	442.00	55.25
	Wives	9	397.50	44.17
	Worked in Paper-mill.....	1	23.50	23.50
	"Working Girls".....	1	70.50	70.50

LAWS OF MICHIGAN
CONCERNING THE
SOLEMNIZATION OF MARRIAGES,
AND THE
RECORD, RETURN, AND COMPILATION
OF
BIRTHS, MARRIAGES, AND DEATHS;
WITH
SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.

4719. Who shall be capable of contracting Marriage.

4720. Marriage is a civil contract.

4721. Who shall not intermarry.

4722. 4724. Who not to marry.

4725. Marriage, by whom solemnized.

4726. One of parties to be examined on oath.

SECTION.

4727. No particular form required.

4728. Forfeiture for joining persons in Marriage contrary to law.

4729. Punishment of persons unauthorized, etc.

4730. Marriages not void in certain cases.

4731. Marriages among Quakers, etc.

4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.

(4719.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) SEC. 2. Marriage, so far as its validity in law is concerned, is a civil contract to which the consent of parties capable in law of contracting is essential.

(4721.) SEC. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) SEC. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout

* For prior Statutes relative to the solemnization of Marriages, see Woodward Code, p. 42; Case Code, p. 111; Code of 1820, p. 230; Rev. of 1827, p. 280; Laws of 1832, p. 6; Rev. of 1838, p. 329; R. S. of 1838 p. 333.

the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: *Provided*, That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen, of the compiled laws of eighteen hundred and seventy-one.^{a b}

(4726.) SEC. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to administer, as to the legality of such intended marriage.

(4727.) SEC. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.^c

SEC. 11.^c

SEC. 12.^c

SEC. 13.^c

(4728.) SEC. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) SEC. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and, upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year, or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

(4732.) SEC. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

^a As amended by Act No. 85, Laws of Michigan, 1873.

^b Previous to 1871 the Mayor of Flint was also authorized to solemnize marriages.

^c Repealed by Act 194, Laws of 1867, p. 286, Sec. 10.

CHAP. XVI., COMPILED LAWS OF 1871.

AN ACT TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS, BEING ACT NO. 194 OF 1867, AS AMENDED BY ACT NO. 125 OF 1869.

Duties of supervisors and assessors.	SECTION 1. <i>The People of the State of Michigan enact</i> , That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: <i>Provided</i> , That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them, respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.
In 1869 returns to be made from April 5 to Dec. 31, 1868.	
Return to county clerk.	
In 1870 and thereafter.	
Returns to include from January to December last preceding.	
Statistics, how obtained.	
Compensation. Provide relative to the city of Detroit.	
Duty of common council.	
Persons to be appointed by.	
Compensation of persons so appointed.	
How paid. Penalties.	

SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.*

Marriages to be recorded.

Marriage of Quakers.

Certificates to be furnished.

Fee for recording.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the

County clerks; duties of.

Births, marriages, and deaths to be numbered and indexed.

Record of births shall state.

Provided.

Record of marriages shall state.

Record of deaths shall state.

[* Blanks for return of marriages to the county clerk are prepared by the Secretary of State, and sent to the clerks of the several counties, from whom they may be obtained upon application.]

Return of county clerk.	death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records of his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And
Compensation.	each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.
Secretary of State shall furnish all blank books, blanks, instructions, etc.	SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record, in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.
Returns to be bound and indexed.	SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State, for that purpose,* he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.
Secretary of State to make annual report.	SEC. 6. Every justice of the peace, minister of the gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or
Neglect to keep records.	
Neglect to deliver certificates.	

* Practically amended by Section 10 of Act No. 81, Laws of Mich., 1878, printed on page 346.

who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days. Penalty.

SEC. 7. Every physician, surgeon, or midwife, who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character. Certificate of death.
Refusal to make certificate.
Penalty.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county Facts to be obtained by supervisor.
Refusal to furnish.
Obtained under oath.
Neglecting to answer a subpoena.
Penalty.

Perjury. jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglect to perform duties. SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Sections repealed. SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of births, marriages and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

AN ACT to establish a State Board of Health, to provide for the appointment of a Superintendent of Vital Statistics, and to assign certain duties to Local Boards of Health, being Act No. 81, Laws of 1873.

Secretary of
State Board of
Health to be
Superintendent
of Vital Statistics.

SEC. 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths.

Approved April 12, 1873.

SUGGESTIONS TO PERSONS AUTHORIZED TO SOLEMNIZE MARRIAGES IN MICHIGAN.

A thorough knowledge of the law concerning the solemnization and return of marriages in Michigan is necessary to a correct performance of the duties of persons authorized to solemnize marriages.

The most frequent violation of the law is in the marriage of persons *under the lawful age*, which is: for males eighteen (18) years, and for females sixteen (16) years. See Section (4719), Compiled Laws of 1871, printed on a previous page. The penalty for the violation of this provision is a forfeit of not exceeding five hundred (500) dollars. See Sec. (4728), Compiled Laws of 1871, printed on a previous page.

In the record and return of marriages, every item specified in the law should be carefully ascertained, and correctly and plainly written. No item should be omitted, and nothing taken for granted, as is often the case with the fact as to *COLOR* of persons married.

In recording the *BIRTHPLACE* of each, the State or country should be distinctly given in each case. This will avoid the difficulty of ascertaining the nativity of persons whose birthplace is returned "Holland," "Hanover," "Denmark," "Wales," "Paris," etc.,—names of places which may be either in the United States or Europe. If such or similar names occur, please state whether it is Holland, *Michigan*, or Holland, *Europe*, and so for each case. Never return the birthplace "America," as we cannot know whether it is in the United States, and are therefore compelled to compile it with the "Unknown." For statistical purposes it is desirable that *every* item be furnished which is called for by the blank upon which you make your returns to your county clerk, *giving close attention to the foot-notes upon the blank*.

In making your returns to the county clerk, you should give your *official station*, as well as your name.

Blanks for the return of marriages to the county clerk can be obtained of the county clerk, who can obtain them from the Secretary of State, at Lansing.

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